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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, D.C. 20549

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**FORM 8-K**

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**CURRENT REPORT**  
**Pursuant to Section 13 or 15(d)**  
**of the Securities Exchange Act of 1934**

**Date of Report (Date of earliest event reported): September 10, 2019**

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**HARMONIC INC.**  
(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction  
of incorporation)

**000-25826**  
Commission  
File Number

**77-0201147**  
(IRS Employer  
Identification No.)

**4300 North First Street**  
**San Jose, CA 95134**  
(Address of principal executive offices, including zip code)

**(408) 542-2500**  
(Registrant's telephone number, including area code)

**Not Applicable**  
(Former name or former address, if changed since last report)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.001 per share	HLIT	The NASDAQ Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (17 CFR §230.405) or Rule 12b-2 of the Securities Exchange Act of 1934 (17 CFR §240.12b-2).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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## Item 1.01 Entry into a Material Definitive Agreement.

### Purchase Agreement

On September 10, 2019, Harmonic Inc. (the “Company”) entered into a purchase agreement (the “Purchase Agreement”) with Barclays Capital Inc., as representative of the several initial purchasers named therein (the “Initial Purchasers”), to issue and sell \$105 million aggregate principal amount of its 2.00% Convertible Senior Notes due 2024 (the “Notes”) in a private placement to qualified institutional buyers pursuant to Rule 144A under the Securities Act of 1933, as amended (the “Securities Act”). The Notes were issued to the Initial Purchasers pursuant to an exemption from the registration requirements of the Securities Act afforded by Section 4(a)(2) of the Securities Act. The Company also granted the Initial Purchasers an option to purchase up to an additional \$10.5 million aggregate principal amount of the Notes. The Initial Purchasers exercised their option in full on September 11, 2019.

The Company estimates that the net proceeds from the sale of the Notes will be approximately \$111.2 million, after deducting the Initial Purchasers’ discounts and commissions and estimated offering expenses payable by the Company.

The Company used substantially all of the net proceeds from the sale of the Notes to repurchase approximately \$82.5 million principal amount of its 4.00% Convertible Senior Notes due 2020 (the “2020 notes”) in privately negotiated transactions concurrently with the Notes offering. The Company intends to use the remaining net proceeds from the sale of the Notes to cover offering expenses and any further remaining net proceeds for other general corporate purposes.

The Purchase Agreement contains customary representations, warranties and covenants by the Company together with customary closing conditions. Under the terms of the Purchase Agreement, the Company has agreed to indemnify the Initial Purchasers against certain liabilities.

The Purchase Agreement is filed as Exhibit 10.1 to this Current Report on Form 8-K and is incorporated by reference herein. The summary of the foregoing transaction is qualified in its entirety by reference to the text of the Purchase Agreement.

### Indenture

On September 13, 2019, the Company entered into an Indenture (the “Indenture”), by and between the Company and U.S. Bank National Association, as trustee (the “Trustee”), pursuant to which the Company issued \$115.5 million aggregate principal amount of Notes. The Notes will bear interest at 2.00% per annum, payable semiannually on March 1 and September 1 of each year, beginning on March 1, 2020. The Notes may bear additional interest under specified circumstances relating to the Company’s failure to comply with its reporting obligations under the Indenture or if the Notes are not freely tradeable as required by the Indenture. The Notes will mature on September 1, 2024, unless earlier repurchased by the Company, redeemed by the Company or converted pursuant to their terms.

The initial conversion rate of the Notes is 115.5001 shares of the Company’s common stock, par value \$0.001 per share (“Common Stock”), per \$1,000 principal amount of Notes (which is equivalent to an initial conversion price of approximately \$8.66 per share). The conversion rate will be subject to adjustment upon the occurrence of certain specified events but will not be adjusted for any accrued and unpaid interest. In addition, upon the occurrence of a make-whole fundamental change (as defined in the Indenture) or an issuance of a notice of redemption, the Company will, in certain circumstances, increase the conversion rate by a number of additional shares for a holder that elects to convert its Notes in connection with such make-whole fundamental change or notice of redemption.

Prior to the close of business on the business day immediately preceding June 1, 2024, the Notes will be convertible only under the following circumstances: (1) during any fiscal quarter commencing after the fiscal quarter ending on December 31, 2019, and only during such fiscal quarter, if the last reported sale price of the Common Stock for at least 20 trading days (whether or not consecutive) in a period of 30 consecutive trading days ending on, and including, the last trading day of the immediately preceding fiscal quarter is greater than or equal to 130% of the conversion price for the Notes on each applicable trading day; (2) during the five business day period after any five consecutive trading day period (the “measurement period”) in which the trading price per \$1,000 principal amount of Notes for each trading day of the measurement period was less than 98% of the product of the last reported sale price of the Common Stock and the conversion rate on each such trading day; (3) if the Company calls any or all of the Notes for redemption, at any time prior to the close of business on the second scheduled trading day immediately preceding the redemption date; or (4) upon the occurrence of specified corporate events. On or after June 1, 2024, until the close of business on the second scheduled trading day immediately preceding the maturity date, holders of the Notes may convert all or any portion of their Notes regardless of the foregoing conditions. Upon conversion, the Company will pay or deliver, as the case may be, and subject to certain conditions, either cash, shares of Common Stock or a combination of cash and shares of Common Stock, at the Company’s election.

The Company may redeem for cash all or any portion of the Notes, at its option, on or after September 6, 2022, if the last reported sale price of the Common Stock has been at least 130% of the conversion price then in effect for at least 20 trading days (whether or not consecutive) during any 30 consecutive trading day period (including the last trading day of such period) ending on, and including, the trading day immediately preceding the date on which the Company provides notice of redemption at a redemption price equal to 100% of the principal amount of the Notes to be redeemed, plus accrued and unpaid interest to, but excluding, the redemption date.

Upon the occurrence of a fundamental change (as defined in the Indenture) prior to the maturity date, holders may require the Company to repurchase all or a portion of their Notes for cash at a price equal to 100% of the principal amount of the Notes to be repurchased, plus accrued and unpaid interest.

The Notes are the Company's senior unsecured obligations and will rank senior in right of payment to any of the Company's indebtedness that is expressly subordinated in right of payment to the Notes; equal in right of payment to any of the Company's unsecured indebtedness that is not so subordinated; effectively junior in right of payment to any of the Company's secured indebtedness to the extent of the value of the assets securing such indebtedness; and structurally junior to all indebtedness and other liabilities of current or future subsidiaries of the Company (including trade payables).

The following events are considered "events of default" with respect to the Notes, which may result in the acceleration of the maturity of the Notes:

- (1) default in any payment of interest on any Note when due and payable, and the default continues for a period of 30 days;
- (2) default in the payment of principal of any Note when due and payable on its stated maturity, upon optional redemption, upon any required repurchase, upon declaration of acceleration or otherwise;
- (3) failure by the Company to comply with its obligation to convert the Notes in accordance with the Indenture upon exercise of a holder's conversion right and such failure continues for three business days;
- (4) failure by the Company to issue a fundamental change company notice in accordance with the provisions of the Indenture or notice of certain other corporate events;
- (5) failure by the Company to comply with its obligations under the Indenture with respect to consolidation, merger, sale, conveyance, transfer and lease of assets of the Company;
- (6) failure by the Company for 60 days after written notice from the Trustee or the holders of at least 25% in aggregate principal amount of the Notes then outstanding has been received by the Company to comply with any of its other agreements contained in the Notes or the Indenture;
- (7) default by the Company or any significant subsidiary (as defined in the Indenture) with respect to any mortgage, agreement or other instrument under which there may be outstanding, or by which there may be secured or evidenced, any indebtedness for money borrowed in excess of \$15,000,000 (or its foreign currency equivalent) in the aggregate of the Company and/or any such significant subsidiary, whether such indebtedness now exists or shall hereafter be created (i) resulting in such indebtedness becoming or being declared due and payable prior to its stated maturity or (ii) constituting a failure to pay the principal of any such indebtedness when due and payable at its stated maturity, upon required repurchase, upon declaration of acceleration or otherwise and in the cases of clauses (i) and (ii), such acceleration shall not have been rescinded or annulled or such failure to pay or default shall not have been cured or waived, or such indebtedness shall not have been paid or discharged, as the case may be, within 30 days after written notice to the Company by the Trustee or to the Company and the Trustee by holders of at least 25% in aggregate principal amount of Notes then outstanding in accordance with the Indenture; or
- (8) certain events of bankruptcy, insolvency or reorganization of the Company or any significant subsidiary.

If such an event of default, other than an event of default described in clause (8) above with respect to the Company, occurs and is continuing, the Trustee by written notice to the Company, or the holders of at least 25% in aggregate principal amount of the outstanding Notes by notice to the Company and the Trustee, may declare 100% of the principal of and accrued and unpaid interest, if any, on all the Notes then outstanding to be due and payable. If an event of default described in clause (8) above with respect to the Company occurs, 100% of the principal of and accrued and unpaid interest on the Notes then outstanding will automatically become due and payable.

The foregoing description is qualified in its entirety by reference to the text of the Indenture and the Form of 2.00% Convertible Senior Notes due 2024, which are attached as Exhibits 4.1 and 4.2, respectively, to this Current Report on Form 8-K and are incorporated herein by reference.

#### **Item 1.02 Termination of a Material Definitive Agreement.**

In connection with the issuance of the Notes, the Company terminated the certain Amended and Restated Loan and Security Agreement, dated as of December 18, 2017, among the Company, Harmonic International AG and Silicon Valley Bank on September 10, 2019 prior to the pricing of the offering of the Notes in order to allow for the issuance of the Notes.

#### **Item 2.03. Creation of a Direct Financial Obligation or an Obligation under an Off-Balance Sheet Arrangement of a Registrant.**

The information set forth in Item 1.01 of this Current Report on Form 8-K is incorporated herein by reference.

#### **Item 3.02 Unregistered Sales of Equity Securities.**

The information set forth in Item 1.01 of this Current Report on Form 8-K is incorporated herein by reference.

#### **Item 8.01 Other Events.**

##### Launch Press Release

On September 10, 2019, the Company issued a press release announcing its intention to offer \$105 million aggregate principal amount of Notes in a private placement to qualified institutional buyers pursuant to Rule 144A under the Securities Act. A copy of the press release is attached as Exhibit 99.1 to this Current Report on Form 8-K and is incorporated herein by reference.

##### Pricing Press Release

On September 11, 2019, the Company issued a press release announcing the pricing of its offering of \$105 million aggregate principal amount of the Notes in a private placement to qualified institutional buyers pursuant to Rule 144A under the Securities Act. A copy of the press release is attached as Exhibit 99.2 to this Current Report on Form 8-K and is incorporated herein by reference.

#### **Item 9.01**

##### **Financial Statements and Exhibits.**

##### **(d) Exhibits**

<u>Exhibit No.</u>	<u>Exhibit No.</u>
4.1	<a href="#"><u>Indenture, dated September 13, 2019, between Harmonic Inc. and U.S. Bank National Association.</u></a>
4.2	<a href="#"><u>Form of 2.00% Convertible Senior Note due 2024 (included in Exhibit 4.1).</u></a>
10.1	<a href="#"><u>Purchase Agreement, dated as of September 10, 2019, by and between Harmonic Inc. and Barclays Capital Inc., as representative of the several Initial Purchasers named in Schedule A attached thereto.</u></a>
99.1	<a href="#"><u>Press release of Harmonic Inc. dated September 10, 2019, entitled "Harmonic Inc. Announces Proposed Private Offering of \$105 Million Convertible Senior Notes."</u></a>
99.2	<a href="#"><u>Press release of Harmonic Inc. dated September 11, 2019, entitled "Harmonic Inc. Announces Pricing of Offering of \$105 Million of Convertible Senior Notes."</u></a>

**SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Date: September 16, 2019

HARMONIC INC.

By: /s/ Sanjay Kalra  
Sanjay Kalra  
Chief Financial Officer

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HARMONIC INC.

AND

U.S. BANK NATIONAL ASSOCIATION

as Trustee

INDENTURE

Dated as of September 13, 2019

2.00% Convertible Senior Notes due 2024

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#### EXHIBIT

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INDENTURE dated as of September 13, 2019 between Harmonic Inc., a Delaware corporation, as issuer (the “**Company**,” as more fully set forth in Section 1.01), and U.S. Bank National Association, a national banking association organized under the laws of the United States of America, as trustee (the “**Trustee**,” as more fully set forth in Section 1.01).

WITNESSETH:

WHEREAS, for its lawful corporate purposes, the Company has duly authorized the issuance of its 2.00% Convertible Senior Notes due 2024 (the “**Notes**”), initially in an aggregate principal amount not to exceed \$115,500,000, and in order to provide the terms and conditions upon which the Notes are to be authenticated, issued and delivered, the Company has duly authorized the execution and delivery of this Indenture; and

WHEREAS, the Form of Note, the certificate of authentication to be borne by each Note, the Form of Notice of Conversion, the Form of Fundamental Change Repurchase Notice and the Form of Assignment and Transfer to be borne by the Notes are to be substantially in the forms hereinafter provided; and

WHEREAS, all acts and things necessary to make the Notes, when executed by the Company and authenticated and delivered by the Trustee or a duly authorized authenticating agent, as in this Indenture provided, the valid, binding and legal obligations of the Company, and this Indenture a valid agreement according to its terms, have been done and performed, and the execution of this Indenture and the issuance hereunder of the Notes have in all respects been duly authorized.

NOW, THEREFORE, THIS INDENTURE WITNESSETH:

That in order to declare the terms and conditions upon which the Notes are, and are to be, authenticated, issued and delivered, and in consideration of the premises and of the purchase and acceptance of the Notes by the Holders thereof, the Company covenants and agrees with the Trustee for the equal and proportionate benefit of the respective Holders from time to time of the Notes (except as otherwise provided below), as follows:

ARTICLE 1  
DEFINITIONS

Section 1.01. *Definitions.* The terms defined in this Section 1.01 (except as herein otherwise expressly provided or unless the context otherwise requires) for all purposes of this Indenture and of any indenture supplemental hereto shall have the respective meanings specified in this Section 1.01. The words “herein,” “hereof,” “hereunder” and words of similar import refer to this Indenture as a whole and not to any particular Article, Section or other subdivision. The terms defined in this Article include the plural as well as the singular.

“**Additional Interest**” means all amounts, if any, payable pursuant to Section 4.06(d), Section 4.06(e) and Section 6.03, as applicable.

“**Additional Shares**” shall have the meaning specified in Section 14.03(a).

“**Affiliate**” of any specified Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such specified Person. For the purposes of this definition, “control,” when used with respect to any specified Person means the power to direct or cause the direction of the management and policies of such Person, directly or indirectly, whether through the ownership of voting securities, by contract or otherwise; and the terms “controlling” and “controlled” have meanings correlative to the foregoing. Notwithstanding anything to the contrary herein, the determination of whether one Person is an “**Affiliate**” of another Person for purposes of this Indenture shall be made based on the facts at the time such determination is made or required to be made, as the case may be, hereunder.

“**Bid Solicitation Agent**” means the Company or the Person appointed by the Company to solicit bids for the Trading Price of the Notes in accordance with Section 14.01(b)(i). The Company shall initially act as the Bid Solicitation Agent.

“**Board of Directors**” means the board of directors of the Company or a committee of such board of directors duly authorized to act for it hereunder.

“**Board Resolution**” means a copy of a resolution certified by the Secretary or an Assistant Secretary of the Company to have been duly adopted by the Board of Directors, and to be in full force and effect on the date of such certification, and delivered to the Trustee.

“**Business Day**” means, with respect to any Note, any day other than a Saturday, a Sunday or a day on which the Federal Reserve Bank of New York is authorized or required by law or executive order to close or be closed.

“**Capital Stock**” means, for any entity, any and all shares, interests, rights to purchase, warrants, options, participations or other equivalents of or interests in (however designated) stock issued by that entity.

“**Cash Settlement**” shall have the meaning specified in Section 14.02(a).

“**Clause A Distribution**” shall have the meaning specified in Section 14.04(c).

“**Clause B Distribution**” shall have the meaning specified in Section 14.04(c).

“**Clause C Distribution**” shall have the meaning specified in Section 14.04(c).

“**close of business**” means 5:00 p.m. (New York City time).

“**Combination Settlement**” shall have the meaning specified in Section 14.02(a).

“**Commission**” means the U.S. Securities and Exchange Commission.

“**Common Equity**” of any Person means Capital Stock of such Person that is generally entitled (a) to vote in the election of directors of such Person or (b) if such Person is not a corporation, to vote or otherwise participate in the selection of the governing body, partners, managers or others that will control the management or policies of such Person.

“**Common Stock**” means the common stock of the Company, par value \$0.001 per share, at the date of this Indenture, subject to Section 14.07.

“**Company**” shall have the meaning specified in the first paragraph of this Indenture, and subject to the provisions of Article 11, shall include its successors and assigns.

“**Company Order**” means a written order of the Company, signed by (a) the Company’s Chief Executive Officer, Chief Financial Officer, President, Executive or Senior Vice President or any Vice President (whether or not designated by a number or numbers or word or words added before or after the title “Vice President”) and (b) any such other Officer designated in clause (a) of this definition or the Company’s Treasurer or Assistant Treasurer or Secretary or any Assistant Secretary, and delivered to the Trustee.

“**Conversion Agent**” shall have the meaning specified in Section 4.02.

“**Conversion Date**” shall have the meaning specified in Section 14.02(c).

“**Conversion Obligation**” shall have the meaning specified in Section 14.01(a).

“**Conversion Price**” means as of any time, \$1,000, *divided by* the Conversion Rate as of such time.

“**Conversion Rate**” shall have the meaning specified in Section 14.01(a).

“**Corporate Event**” shall have the meaning specified in Section 14.01(b)(iii).

“**Corporate Trust Office**” means the designated office of the Trustee at which at any time its corporate trust business related to this Indenture shall be administered, which office at the date hereof is located at 633 West Fifth Street, 24<sup>th</sup> Floor, Los Angeles, California 90071, Attention: Global Corporate Trust Services – P. Oswald (Harmonic Inc.), or such other address as the Trustee may designate from time to time by notice to the Holders and the Company, or the principal corporate trust office of any successor trustee (or such other address as such successor trustee may designate from time to time by notice to the Holders and the Company).

“**Custodian**” means the Trustee, as custodian for The Depository Trust Company, with respect to the Global Notes, or any successor entity thereto.

“**Daily Conversion Value**” means, for each of the 50 consecutive Trading Days during the relevant Observation Period, 2.0% of the product of (a) the Conversion Rate on such Trading Day and (b) the Daily VWAP for such Trading Day.

“**Daily Measurement Value**” means the Specified Dollar Amount (if any), *divided by* 50.

“**Daily Settlement Amount**,” for each of the 50 consecutive Trading Days during the relevant Observation Period, shall consist of:

(a) cash in an amount equal to the lesser of (i) the Daily Measurement Value and (ii) the Daily Conversion Value on such Trading Day; and

(b) if the Daily Conversion Value on such Trading Day exceeds the Daily Measurement Value, a number of shares of Common Stock equal to (i) the difference between the Daily Conversion Value and the Daily Measurement Value, *divided by* (ii) the Daily VWAP for such Trading Day.

“**Daily VWAP**” means, for each of the 50 consecutive Trading Days during the relevant Observation Period, the per share volume-weighted average price as displayed under the heading “Bloomberg VWAP” on Bloomberg page “HLIT <equity> AQR” (or its equivalent successor if such page is not available) in respect of the period from the scheduled open of trading until the scheduled close of trading of the primary trading session on such Trading Day (or if such volume-weighted average price is unavailable, the market value of one share of the Common Stock on such Trading Day reasonably determined, using a volume-weighted average method, by a nationally recognized independent investment banking firm retained for this purpose by the Company). The “**Daily VWAP**” shall be determined without regard to after-hours trading or any other trading outside of the regular trading session trading hours.

“**Default**” means any event that is, or after notice or passage of time, or both, would be, an Event of Default.

“**Defaulted Amounts**” means any amounts on any Note (including, without limitation, the Redemption Price, the Fundamental Change Repurchase Price, principal and interest) that are payable but are not punctually paid or duly provided for.

“**Depository**” means, with respect to each Global Note, the Person specified in Section 2.05(c) as the Depository with respect to such Notes, until a successor shall have been appointed and become such pursuant to the applicable provisions of this Indenture, and thereafter, “**Depository**” shall mean or include such successor.

“**Designated Institution**” shall have the meaning specified in Section 14.12.

“**Distributed Property**” shall have the meaning specified in Section 14.04(c).

“**Effective Date**” shall have the meaning specified in Section 14.03(c), except that, as used in Section 14.04 and Section 14.05, “**Effective Date**” means the first date on which shares of the Common Stock trade on the applicable exchange or in the applicable market, regular way, reflecting the relevant share split or share combination, as applicable. For the avoidance of doubt, any alternative trading convention on the applicable exchange or market in respect of shares of Common Stock under a separate ticker symbol or CUSIP number shall not be considered “regular way” for this purpose.

“**Event of Default**” shall have the meaning specified in Section 6.01.

**“Ex-Dividend Date”** means the first date on which shares of the Common Stock trade on the applicable exchange or in the applicable market, regular way, without the right to receive the issuance, dividend or distribution in question, from the Company or, if applicable, from the seller of Common Stock on such exchange or market (in the form of due bills or otherwise) as determined by such exchange or market. For the avoidance of doubt, any alternative trading convention on the applicable exchange or market in respect of shares of Common Stock under a separate ticker symbol or CUSIP number shall not be considered “regular way” for this purpose.

**“Exchange Act”** means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.

**“Flexible Settlement Deadline”** shall have the meaning specified in Section 14.02(a).

**“Form of Assignment and Transfer”** means the “Form of Assignment and Transfer” attached as Attachment 3 to the Form of Note attached hereto as Exhibit A.

**“Form of Fundamental Change Repurchase Notice”** means the “Form of Fundamental Change Repurchase Notice” attached as Attachment 2 to the Form of Note attached hereto as Exhibit A.

**“Form of Note”** means the “Form of Note” attached hereto as Exhibit A.

**“Form of Notice of Conversion”** means the “Form of Notice of Conversion” attached as Attachment 1 to the Form of Note attached hereto as Exhibit A.

**“Fundamental Change”** shall be deemed to have occurred at the time after the Notes are originally issued if any of the following occurs prior to the Maturity Date:

(a) a “person” or “group” within the meaning of Section 13(d) of the Exchange Act, other than the Company, its direct or indirect Wholly Owned Subsidiaries and the employee benefit plans of the Company and any of its Wholly Owned Subsidiaries, files a Schedule TO or any schedule, form or report under the Exchange Act that discloses that such person or group has become the direct or indirect “beneficial owner,” as defined in Rule 13d-3 under the Exchange Act, of the Company’s Common Equity representing more than 50% of the voting power of the Company’s Common Equity; *provided*, that no person or group shall be deemed to be the beneficial owner of any securities tendered pursuant to a tender or exchange offer made by or on behalf of such “person” or “group” until such tendered securities are accepted for purchase or exchange under such offer;

(b) the consummation of (i) any recapitalization, reclassification or change of the Common Stock (other than changes resulting from a subdivision, combination or change in par value) as a result of which the Common Stock would be converted into, or exchanged for, stock, other securities, other property or assets; (ii) any share exchange, consolidation or merger of the Company pursuant to which the Common Stock will be converted into or exchanged for cash, securities or other property or assets; or (iii) any sale, lease or other transfer in one transaction or a series of transactions of all or

substantially all of the consolidated assets of the Company and its Subsidiaries, taken as a whole, to any Person other than one or more of the Company's direct or indirect Wholly Owned Subsidiaries; *provided, however*, that a transaction described in subclause (i) or (ii) in which the holders of all classes of the Company's Common Equity immediately prior to such transaction own, directly or indirectly, more than 50% of all classes of Common Equity of the continuing or surviving corporation or transferee or the parent thereof immediately after such transaction in substantially the same proportions (relative to each other) as such ownership immediately prior to such transaction shall not be a Fundamental Change pursuant to this clause (b);

(c) the stockholders of the Company approve any plan or proposal for the liquidation or dissolution of the Company; or

(d) the Common Stock (or other common stock underlying the Notes) ceases to be listed or quoted on any of The New York Stock Exchange, The Nasdaq Global Select Market or The Nasdaq Global Market (or any of their respective successors);

*provided, however*, that a transaction or transactions described in clause (a) or (b) above shall not constitute a Fundamental Change if at least 90% of the consideration received or to be received by the common stockholders of the Company, excluding cash payments for fractional shares or pursuant to statutory appraisal rights, in connection with such transaction or transactions consists of shares of common stock that are listed or quoted on any of The New York Stock Exchange, The Nasdaq Global Select Market or The Nasdaq Global Market (or any of their respective successors) or will be so listed or quoted when issued or exchanged in connection with such transaction or transactions and as a result of such transaction or transactions the Notes become convertible into such consideration, excluding cash payments for fractional shares or pursuant to statutory appraisal rights (subject to the provisions of Section 14.02(a)). In addition, any transaction that constitutes a Fundamental Change pursuant to both clause (a) and clause (b) above (without giving effect to the *proviso* in clause (b)) shall be deemed to constitute a Fundamental Change solely under clause (b) above (subject to the *proviso* in clause (b)). If any transaction in which the Common Stock is replaced by the securities of another entity occurs, following completion of any related Make-Whole Fundamental Change Period (or, in the case of a transaction that would have been a Fundamental Change or a Make-Whole Fundamental Change but for the *proviso* immediately following clause (d) of this definition, following the effective date of such transaction) references to the Company in this definition shall instead be references to such other entity.

“**Fundamental Change Company Notice**” shall have the meaning specified in Section 15.02(c).

“**Fundamental Change Repurchase Date**” shall have the meaning specified in Section 15.02(a).

“**Fundamental Change Repurchase Notice**” shall have the meaning specified in Section 15.02(b)(i).

“**Fundamental Change Repurchase Price**” shall have the meaning specified in Section 15.02(a).

“**Global Note**” shall have the meaning specified in Section 2.05(b).

“**Holder**,” as applied to any Note, or other similar terms (but excluding the term “beneficial holder”), means any Person in whose name at the time a particular Note is registered on the Note Register.

“**Indenture**” means this instrument as originally executed or, if amended or supplemented as herein provided, as so amended or supplemented.

“**Initial Purchasers**” means Barclays Capital Inc., Dougherty & Company LLC, Needham & Company, LLC, Northland Securities, Inc., Raymond James & Associates, Inc. and Stifel, Nicolaus & Company, Incorporated.

“**Interest Payment Date**” means each March 1 and September 1 of each year, beginning on March 1, 2020.

“**Last Reported Sale Price**” of the Common Stock (or other security for which a closing sale price must be determined) on any date means the closing sale price per share (or if no closing sale price is reported, the average of the bid and ask prices or, if more than one in either case, the average of the average bid and the average ask prices) on that date as reported in composite transactions for the principal U.S. national or regional securities exchange on which the Common Stock (or such other security) is traded. If the Common Stock (or such other security) is not listed for trading on a U.S. national or regional securities exchange on the relevant date, the “**Last Reported Sale Price**” shall be the last quoted bid price for the Common Stock (or such other security) in the over-the-counter market on the relevant date as reported by OTC Markets Group Inc. or a similar organization. If the Common Stock (or such other security) is not so quoted, the “**Last Reported Sale Price**” shall be the average of the mid-point of the last bid and ask prices for the Common Stock (or such other security) on the relevant date from each of at least three nationally recognized independent investment banking firms selected by the Company for this purpose. The “**Last Reported Sale Price**” shall be determined without regard to after-hours trading or any other trading outside of the regular trading session hours.

“**Make-Whole Fundamental Change**” means any transaction or event that constitutes a Fundamental Change (as defined in this Article 1 and determined after giving effect to any exceptions to or exclusions from such definition, but without regard to the *proviso* in clause (b) of the definition thereof).

“**Make-Whole Fundamental Change Period**” shall have the meaning specified in Section 14.03(a).

“**Market Disruption Event**” means, for the purposes of determining amounts due upon conversion (a) a failure by the primary U.S. national or regional securities exchange or market on which the Common Stock is listed or admitted for trading to open for trading during its regular trading session or (b) the occurrence or existence prior to 1:00 p.m., New York City time, on any

Scheduled Trading Day for the Common Stock for more than one half-hour period in the aggregate during regular trading hours of any suspension or limitation imposed on trading (by reason of movements in price exceeding limits permitted by the relevant stock exchange or otherwise) in the Common Stock or in any options contracts or futures contracts traded on any U.S. securities exchange relating to the Common Stock.

“**Maturity Date**” means September 1, 2024.

“**Maximum Conversion Rate**” shall have the meaning specified in Section 14.03(e).

“**Maximum Number of Underlying Shares**” means as of any date the product of (i) the Maximum Conversion Rate on such date and (ii) the sum of (a) the aggregate principal amount of outstanding Notes and (b) prior to the earlier of the expiration and any exercise in full of the Initial Purchasers’ option to purchase additional Notes as set forth in the Purchase Agreement, the aggregate principal amount of Notes that may be so purchased, in each case, expressed in thousands.

“**Measurement Period**” shall have the meaning specified in Section 14.01(b)(i).

“**Note**” or “**Notes**” shall have the meaning specified in the first paragraph of the recitals of this Indenture.

“**Note Register**” shall have the meaning specified in Section 2.05(a).

“**Note Registrar**” shall have the meaning specified in Section 2.05(a).

“**Notice of Conversion**” shall have the meaning specified in Section 14.02(b).

“**Observation Period**” with respect to any Note surrendered for conversion means: (i) subject to clause (ii), if the relevant Conversion Date occurs prior to June 1, 2024, the 50 consecutive Trading Day period beginning on, and including, the second Trading Day immediately succeeding such Conversion Date; (ii) if the relevant Conversion Date occurs on or after the date of the Company’s issuance of a Redemption Notice with respect to the Notes pursuant to Section 16.02 and prior to the Scheduled Trading Day immediately preceding the relevant Redemption Date, the 50 consecutive Trading Days beginning on, and including, the 51<sup>st</sup> Scheduled Trading Day immediately preceding such Redemption Date; and (iii) subject to clause (ii), if the relevant Conversion Date occurs on or after June 1, 2024, the 50 consecutive Trading Days beginning on, and including, the 51<sup>st</sup> Scheduled Trading Day immediately preceding the Maturity Date.

“**Offering Memorandum**” means the preliminary offering memorandum dated September 10, 2019, as supplemented by the related pricing term sheet dated September 10, 2019, relating to the offering and sale of the Notes.

“**Officer**” means, with respect to the Company, the President, the Chief Executive Officer, the Chief Financial Officer, the Treasurer, the Secretary, any Executive or Senior Vice President or any Vice President (whether or not designated by a number or numbers or word or words added before or after the title “Vice President”).

“**Officer’s Certificate**,” when used with respect to the Company, means a certificate that is delivered to the Trustee and that is signed by an Officer of the Company. Each such certificate shall include the statements provided for in Section 17.05 if and to the extent required by the provisions of such Section. The Officer giving an Officer’s Certificate pursuant to Section 4.08 shall be the principal executive, financial or accounting officer of the Company.

“**open of business**” means 9:00 a.m. (New York City time).

“**Opinion of Counsel**” means an opinion in writing signed by legal counsel, who may be an employee of or counsel to the Company, or other counsel who is reasonably acceptable to the Trustee, that is delivered to the Trustee, which opinion may contain customary exceptions and qualifications as to the matters set forth therein. Each such opinion shall include the statements provided for in Section 17.05 if and to the extent required by the provisions of such Section 17.05.

“**Optional Redemption**” shall have the meaning specified in Section 16.01.

“**outstanding**,” when used with reference to Notes, shall, subject to the provisions of Section 8.04, mean, as of any particular time, all Notes authenticated and delivered by the Trustee under this Indenture, except:

(a) Notes theretofore canceled by the Trustee or accepted by the Trustee for cancellation;

(b) Notes, or portions thereof, that have become due and payable and in respect of which monies in the necessary amount shall have been deposited in trust with the Trustee or with any Paying Agent (other than the Company) or shall have been set aside and segregated in trust by the Company (if the Company shall act as its own Paying Agent);

(c) Notes that have been paid pursuant to Section 2.06 or Notes in lieu of which, or in substitution for which, other Notes shall have been authenticated and delivered pursuant to the terms of Section 2.06 unless proof satisfactory to the Trustee is presented that any such Notes are held by protected purchasers in due course;

(d) Notes converted pursuant to Article 14 and required to be cancelled pursuant to Section 2.08;

(e) Notes repurchased by the Company pursuant to the third sentence of Section 2.10; and

(f) Notes redeemed pursuant to Article 16.

“**Paying Agent**” shall have the meaning specified in Section 4.02.

“**Permitted Sale Transaction**” means any sale, conveyance, transfer or lease of all or substantially all of the consolidated properties and assets of the Company and its Subsidiaries, taken as a whole, to one or more of the Company’s direct or indirect Wholly Owned Subsidiaries, so long as, concurrently with such transaction, each such Wholly Owned Subsidiary fully and unconditionally guarantees, on a senior basis, all of the Company’s obligations under the Notes for so long as any Notes are outstanding.

“**Person**” means an individual, a corporation, a limited liability company, an association, a partnership, a joint venture, a joint stock company, a trust, an unincorporated organization or a government or an agency or a political subdivision thereof.

“**Physical Notes**” means permanent certificated Notes in registered form issued in denominations of \$1,000 principal amount and integral multiples thereof.

“**Physical Settlement**” shall have the meaning specified in Section 14.02(a).

“**Predecessor Note**” of any particular Note means every previous Note evidencing all or a portion of the same debt as that evidenced by such particular Note; and, for the purposes of this definition, any Note authenticated and delivered under Section 2.06 in lieu of or in exchange for a mutilated, lost, destroyed or stolen Note shall be deemed to evidence the same debt as the mutilated, lost, destroyed or stolen Note that it replaces.

“**Purchase Agreement**” means that certain Purchase Agreement, dated as of September 10, 2019, among the Company and the Initial Purchasers.

“**Record Date**” means, with respect to any dividend, distribution or other transaction or event in which the holders of Common Stock (or other applicable security) have the right to receive any cash, securities or other property or in which the Common Stock (or such other security) is exchanged for or converted into any combination of cash, securities or other property, the date fixed for determination of holders of the Common Stock (or such other security) entitled to receive such cash, securities or other property (whether such date is fixed by the Board of Directors, by statute, by contract or otherwise).

“**Redemption Date**” shall have the meaning specified in Section 16.02(a).

“**Redemption Notice**” shall have the meaning specified in Section 16.02(a).

“**Redemption Price**” means, for any Notes to be redeemed pursuant to Section 16.01, 100% of the principal amount of such Notes, *plus* accrued and unpaid interest, if any, to, but excluding, the Redemption Date (unless the Redemption Date falls after a Regular Record Date but on or prior to the immediately succeeding Interest Payment Date, in which case interest accrued to the Interest Payment Date will be paid by the Company to Holders of record of such Notes as of the close of business on such Regular Record Date, and the Redemption Price will be equal to 100% of the principal amount of such Notes).

“**Reference Property**” shall have the meaning specified in Section 14.07(a).

“**Registration Default**” shall have the meaning specified in Section 4.06(e).

“**Regular Record Date**,” with respect to any Interest Payment Date, means the February 15 or August 15 (whether or not such day is a Business Day) immediately preceding the applicable March 1 or September 1 Interest Payment Date, respectively.

“**Resale Restriction Termination Date**” shall have the meaning specified in Section 2.05(c).

“**Reserve Notice**” shall have the meaning specified in Section 14.02(a).

“**Responsible Officer**” means, when used with respect to the Trustee, any officer within the corporate trust department of the Trustee, including any vice president, assistant vice president, assistant secretary, assistant treasurer, trust officer or any other officer of the Trustee who customarily performs functions similar to those performed by the Persons who at the time shall be such officers, respectively, or to whom any corporate trust matter relating to this Indenture is referred because of such person’s knowledge of and familiarity with the particular subject and who, in each case, shall have direct responsibility for the administration of this Indenture.

“**Restricted Securities**” shall have the meaning specified in Section 2.05(c).

“**Rule 144**” means Rule 144 as promulgated under the Securities Act.

“**Rule 144A**” means Rule 144A as promulgated under the Securities Act.

“**Scheduled Trading Day**” means a day that is scheduled to be a Trading Day on the principal U.S. national or regional securities exchange or market on which the Common Stock is listed or admitted for trading. If the Common Stock is not so listed or admitted for trading, “**Scheduled Trading Day**” means a Business Day.

“**Securities Act**” means the Securities Act of 1933, as amended, and the rules and regulations promulgated thereunder.

“**Settlement Amount**” shall have the meaning specified in Section 14.02(a)(iv).

“**Settlement Method**” means, with respect to any conversion of Notes, Physical Settlement, Cash Settlement or Combination Settlement, as elected (or deemed to have been elected) by the Company.

“**Settlement Notice**” shall have the meaning specified in Section 14.02(a)(iii)(A).

“**Share Exchange Event**” shall have the meaning specified in Section 14.07(a).

“**Share Reservation Condition**” shall have the meaning specified in Section 14.02(a).

“**Significant Subsidiary**” means a Subsidiary of the Company that meets the definition of “significant subsidiary” in Article 1, Rule 1-02 of Regulation S-X under the Exchange Act; *provided* that, in the case of a Subsidiary of the Company that meets the criteria of clause (3) of the definition thereof but not clause (1) or (2) thereof, such Subsidiary shall not be deemed to be a “Significant Subsidiary” unless such Subsidiary’s income (or loss) from continuing operations before income taxes, extraordinary items and cumulative effect of a change in accounting principle exclusive of amounts attributable to any non-controlling interests for the last completed fiscal year prior to the date of such determination exceeds \$3,000,000.

“**Specified Dollar Amount**” means the maximum cash amount per \$1,000 principal amount of Notes to be received upon conversion as specified (or otherwise deemed to have been specified) in the Settlement Notice related to any converted Notes.

“**Spin-Off**” shall have the meaning specified in Section 14.04(c).

“**Stock Price**” shall have the meaning specified in Section 14.03(c).

“**Subsidiary**” means, with respect to any Person, any corporation, association, partnership or other business entity of which more than 50% of the total voting power of shares of Capital Stock or other interests (including partnership interests) entitled (without regard to the occurrence of any contingency) to vote in the election of directors, managers, general partners or trustees thereof is at the time owned or controlled, directly or indirectly, by (i) such Person; (ii) such Person and one or more Subsidiaries of such Person; or (iii) one or more Subsidiaries of such Person.

“**Successor Company**” shall have the meaning specified in Section 11.01(a).

“**Trading Day**”, except for purposes of determining amounts due upon conversion pursuant to Section 14.02, means a day on which (i) trading in the Common Stock (or other security for which a closing sale price must be determined) generally occurs on The Nasdaq Global Select Market or, if the Common Stock (or such other security) is not then listed on The Nasdaq Global Select Market, on the principal other U.S. national or regional securities exchange on which the Common Stock (or such other security) is then listed or, if the Common Stock (or such other security) is not then listed on a U.S. national or regional securities exchange, on the principal other market on which the Common Stock (or such other security) is then traded and (ii) a Last Reported Sale Price for the Common Stock (or closing sale price for such other security) is available on such securities exchange or market; *provided* that if the Common Stock (or such other security) is not so listed or traded, “**Trading Day**” means a Business Day; and *provided, further*, that for purposes of determining amounts due upon conversion pursuant to Section 14.02 only, “**Trading Day**” means a day on which (x) there is no Market Disruption Event and (y) trading in the Common Stock generally occurs on The Nasdaq Global Select Market or, if the Common Stock is not then listed on The Nasdaq Global Select Market, on the principal other U.S. national or regional securities exchange on which the Common Stock is then listed or, if the Common Stock is not then listed on a U.S. national or regional securities exchange, on the principal other market on which the Common Stock is then listed or admitted for trading, except that if the Common Stock is not so listed or admitted for trading, “**Trading Day**” means a Business Day.

“**Trading Price**” of the Notes on any date of determination means the average of the secondary market bid quotations obtained in writing by the Bid Solicitation Agent for \$5,000,000 principal amount of Notes at approximately 3:30 p.m., New York City time, on such determination date from three independent nationally recognized securities dealers the Company selects for this purpose; *provided* that if three such bids cannot reasonably be obtained by the Bid Solicitation Agent but two such bids are obtained, then the average of the two bids shall be used, and if only one such bid can reasonably be obtained by the Bid Solicitation Agent, that one bid shall be used. If, on any date, the Bid Solicitation Agent cannot reasonably obtain at least one bid for \$5,000,000 principal amount of Notes on such date from a nationally recognized securities dealer on any determination date, then the Trading Price per \$1,000 principal amount of Notes on such determination date shall be deemed to be less than 98% of the product of the Last Reported Sale Price of the Common Stock and the Conversion Rate on each Trading Day of such failure.

“**Trading Price Condition**” shall have the meaning specified in Section 14.01(b).

“**transfer**” shall have the meaning specified in Section 2.05(c).

“**Trigger Event**” shall have the meaning specified in Section 14.04(c).

“**Trust Indenture Act**” means the Trust Indenture Act of 1939, as amended, as it was in force at the date of execution of this Indenture; *provided, however,* that in the event the Trust Indenture Act of 1939 is amended after the date hereof, the term “Trust Indenture Act” shall mean, to the extent required by such amendment, the Trust Indenture Act of 1939, as so amended.

“**Trustee**” means, initially, the Person named as the “**Trustee**” in the first paragraph of this Indenture until a successor trustee shall have become such pursuant to the applicable provisions of this Indenture, and thereafter “**Trustee**” shall mean or include each Person who is then a Trustee hereunder.

“**unit of Reference Property**” shall have the meaning specified in Section 14.07(a).

“**Valuation Period**” shall have the meaning specified in Section 14.04(c).

“**Wholly Owned Subsidiary**” means, with respect to any Person, any Subsidiary of such Person, except that, solely for purposes of this definition, the reference to “more than 50%” in the definition of “Subsidiary” shall be deemed replaced by a reference to “100%”.

Section 1.02. *References to Interest.* Unless the context otherwise requires, any reference to interest on, or in respect of, any Note in this Indenture shall be deemed to include Additional Interest if, in such context, Additional Interest is, was or would be payable pursuant to any of Section 4.06(d), Section 4.06(e) and Section 6.03. Unless the context otherwise requires, any express mention of Additional Interest in any provision hereof shall not be construed as excluding Additional Interest in those provisions hereof where such express mention is not made.

ARTICLE 2  
ISSUE, DESCRIPTION, EXECUTION, REGISTRATION AND EXCHANGE OF NOTES

Section 2.01. *Designation and Amount.* The Notes shall be designated as the “2.00% Convertible Senior Notes due 2024.” The aggregate principal amount of Notes that may be authenticated and delivered under this Indenture is initially limited to \$115,500,000, subject to Section 2.10 and except for Notes authenticated and delivered upon registration or transfer of, or in exchange for, or in lieu of other Notes to the extent expressly permitted hereunder.

Section 2.02. *Form of Notes.* The Notes and the Trustee’s certificate of authentication to be borne by such Notes shall be substantially in the respective forms set forth in Exhibit A, the terms and provisions of which shall constitute, and are hereby expressly incorporated in and made a part of this Indenture. To the extent applicable, the Company and the Trustee, by their execution and delivery of this Indenture, expressly agree to such terms and provisions and to be bound thereby. In the case of any conflict between this Indenture and a Note, the provisions of this Indenture shall control and govern.

Any Global Note may be endorsed with or have incorporated in the text thereof such legends or recitals or changes not inconsistent with the provisions of this Indenture as may be required by the Custodian or the Depository, or as may be required to comply with any applicable law or any regulation thereunder or with the rules and regulations of any securities exchange or automated quotation system upon which the Notes may be listed or traded or designated for issuance or to conform with any usage with respect thereto, or to indicate any special limitations or restrictions to which any particular Notes are subject.

Any of the Notes may have such letters, numbers or other marks of identification and such notations, legends or endorsements as the Officer or Officers executing the same may approve (execution thereof to be conclusive evidence of such approval) and as are not inconsistent with the provisions of this Indenture, or as may be required to comply with any law or with any rule or regulation made pursuant thereto or with any rule or regulation of any securities exchange or automated quotation system on which the Notes may be listed or designated for issuance, or to conform to usage or to indicate any special limitations or restrictions to which any particular Notes are subject.

Each Global Note shall represent such principal amount of the outstanding Notes as shall be specified therein and shall provide that it shall represent the aggregate principal amount of outstanding Notes from time to time endorsed thereon and that the aggregate principal amount of outstanding Notes represented thereby may from time to time be increased or reduced to reflect redemptions, repurchases, cancellations, conversions, transfers or exchanges permitted hereby. Any endorsement of a Global Note to reflect the amount of any increase or decrease in the amount of outstanding Notes represented thereby shall be made by the Trustee or the Custodian, at the direction of the Trustee, in such manner and upon instructions given by the Holder of such Notes in accordance with this Indenture. Payment of principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, and accrued and unpaid interest on, a Global Note shall be made to the Holder of such Note on the date of payment, unless a record date or other means of determining Holders eligible to receive payment is provided for herein.

Section 2.03. *Date and Denomination of Notes; Payments of Interest and Defaulted Amounts.* (a) The Notes shall be issuable in registered form without coupons in minimum denominations of \$1,000 principal amount and integral multiples of \$1,000 in excess thereof. Each Note shall be dated the date of its authentication and shall bear interest from the date specified on the face of such Note. Accrued interest on the Notes shall be computed on the basis of a 360-day year composed of twelve 30-day months and, for partial months, on the basis of the number of days actually elapsed in a 30-day month.

(b) The Person in whose name any Note (or its Predecessor Note) is registered on the Note Register at the close of business on any Regular Record Date with respect to any Interest Payment Date shall be entitled to receive the interest payable on such Interest Payment Date. The principal amount of any Note (x) in the case of any Physical Note, shall be payable at the office or agency of the Company designated by the Company for such purposes in the continental United States of America, which shall initially be the Corporate Trust Office and (y) in the case of any Global Note, shall be payable by wire transfer of immediately available funds to the account of the Depositary or its nominee. The Company shall pay (or cause the Paying Agent to pay) interest (i) on any Physical Notes (A) to Holders holding Physical Notes having an aggregate principal amount of \$5,000,000 or less, by check mailed to the Holders of these Notes at their address as it appears in the Note Register and (B) to Holders holding Physical Notes having an aggregate principal amount of more than \$5,000,000, either by check mailed to each Holder or, upon application by such a Holder to the Note Registrar not later than the relevant Regular Record Date, by wire transfer in immediately available funds to that Holder's account within the United States if such Holder has provided the Paying Agent with the requisite information, in writing, necessary to make such wire transfer, which application shall remain in effect until the Holder notifies, in writing, the Note Registrar to the contrary or (ii) on any Global Note by wire transfer of immediately available funds to the account of the Depositary or its nominee.

(c) Any Defaulted Amounts shall forthwith cease to be payable to the Holder on the relevant payment date but shall accrue interest per annum at the rate borne by the Notes at such time from, and including, such relevant payment date, and such Defaulted Amounts together with such interest thereon shall be paid by the Company, at its election in each case, as provided in clause (i) or (ii) below:

(i) The Company may elect to make payment of any Defaulted Amounts to the Persons in whose names the Notes (or their respective Predecessor Notes) are registered at the close of business on a special record date for the payment of such Defaulted Amounts, which shall be fixed in the following manner. The Company shall notify the Trustee in writing of the amount of the Defaulted Amounts proposed to be paid on each Note and the date of the proposed payment (which shall be not less than 25 days after the receipt by the Trustee of such notice, unless the Trustee shall consent to an earlier date), and at the same time the Company shall deposit with the Trustee an amount of money equal to the aggregate amount to be paid in respect of such Defaulted Amounts or shall make arrangements satisfactory to the Trustee for such deposit on or prior to the date of the proposed payment, such money when deposited to be held in trust for the benefit of the Persons entitled to such Defaulted Amounts as in this clause provided. Thereupon the Company shall fix a special record date for the payment of such Defaulted

Amounts which shall be not more than 15 days and not less than 10 days prior to the date of the proposed payment, and not less than 10 days after the receipt by the Trustee of the notice of the proposed payment. The Company shall promptly notify the Trustee in writing of such special record date and the Trustee, in the name and at the expense of the Company, shall cause notice of the proposed payment of such Defaulted Amounts and the special record date therefor to be delivered to each Holder not less than 10 days prior to such special record date. Notice of the proposed payment of such Defaulted Amounts and the special record date therefor having been so delivered, such Defaulted Amounts shall be paid to the Persons in whose names the Notes (or their respective Predecessor Notes) are registered at the close of business on such special record date and shall no longer be payable pursuant to the following clause (ii) of this Section 2.03(c).

(ii) The Company may make payment of any Defaulted Amounts in any other lawful manner not inconsistent with the requirements of any securities exchange or automated quotation system on which the Notes may be listed or designated for issuance, and upon such notice as may be required by such exchange or automated quotation system, if, after written notice given by the Company to the Trustee of the proposed payment pursuant to this clause, such manner of payment shall be deemed practicable by the Trustee.

Section 2.04. *Execution, Authentication and Delivery of Notes.* The Notes shall be signed in the name and on behalf of the Company by the manual or facsimile signature of its Chief Executive Officer, President, Chief Financial Officer, Treasurer, Secretary or any of its Executive or Senior Vice Presidents.

At any time and from time to time after the execution and delivery of this Indenture, the Company may deliver Notes executed by the Company to the Trustee for authentication, together with a Company Order for the authentication and delivery of such Notes, and the Trustee in accordance with such Company Order shall authenticate and deliver such Notes, without any further action by the Company hereunder, other than delivery of an Officer's Certificate and an Opinion of Counsel pursuant to Section 17.05.

Only such Notes as shall bear thereon a certificate of authentication substantially in the form set forth on the Form of Note attached as Exhibit A hereto, executed manually by an authorized signatory of the Trustee (or an authenticating agent appointed by the Trustee as provided by Section 17.10), shall be entitled to the benefits of this Indenture or be valid or obligatory for any purpose. Such certificate by the Trustee (or such an authenticating agent) upon any Note executed by the Company shall be conclusive evidence that the Note so authenticated has been duly authenticated and delivered hereunder and that the Holder is entitled to the benefits of this Indenture.

In case any Officer of the Company who shall have signed any of the Notes shall cease to be such Officer before the Notes so signed shall have been authenticated and delivered by the Trustee, or disposed of by the Company, such Notes nevertheless may be authenticated and delivered or disposed of as though the person who signed such Notes had not ceased to be such Officer of the Company; and any Note may be signed on behalf of the Company by such Persons as, at the actual date of the execution of such Note, shall be the Officers of the Company, although at the date of the execution of this Indenture any such person was not such an Officer.

Section 2.05. *Exchange and Registration of Transfer of Notes; Restrictions on Transfer; Depositary.* (a) The Company shall cause to be kept at the Corporate Trust Office a register (the register maintained in such office or in any other office or agency of the Company designated pursuant to Section 4.02, the “**Note Registrar**”) in which, subject to such reasonable regulations as it may prescribe, the Company shall provide for the registration of Notes and of transfers of Notes. Such register shall be in written form or in any form capable of being converted into written form within a reasonable period of time. The Trustee is hereby initially appointed the “**Note Registrar**” for the purpose of registering Notes and transfers of Notes as herein provided. The Company may appoint one or more co-Note Registrars in accordance with Section 4.02.

Upon surrender for registration of transfer of any Note to the Note Registrar or any co-Note Registrar, and satisfaction of the requirements for such transfer set forth in this Section 2.05, the Company shall execute, and the Trustee shall authenticate and deliver, in the name of the designated transferee or transferees, one or more new Notes of any authorized denominations and of a like aggregate principal amount and bearing such restrictive legends as may be required by this Indenture.

Notes may be exchanged for other Notes of any authorized denominations and of a like aggregate principal amount, upon surrender of the Notes to be exchanged at any such office or agency maintained by the Company pursuant to Section 4.02. Whenever any Notes are so surrendered for exchange, the Company shall execute, and the Trustee shall authenticate and deliver, the Notes that the Holder making the exchange is entitled to receive, bearing registration numbers not contemporaneously outstanding.

All Notes presented or surrendered for registration of transfer or for exchange, repurchase or conversion shall (if so required by the Company, the Trustee, the Note Registrar or any co-Note Registrar) be duly endorsed, or be accompanied by a written instrument or instruments of transfer in form satisfactory to the Company and duly executed, by the Holder thereof or its attorney-in-fact duly authorized in writing.

No service charge shall be imposed by the Company, the Trustee, the Note Registrar, any co-Note Registrar or the Paying Agent for any exchange or registration of transfer of Notes, but the Company may require a Holder to pay a sum sufficient to cover any documentary, stamp or similar issue or transfer tax required in connection therewith as a result of the name of the Holder of new Notes issued upon such exchange or registration of transfer being different from the name of the Holder of the old Notes surrendered for exchange or registration of transfer.

None of the Company, the Trustee, the Note Registrar or any co-Note Registrar shall be required to exchange or register a transfer of (i) any Notes surrendered for conversion or, if a portion of any Note is surrendered for conversion, such portion thereof surrendered for conversion, (ii) any Notes, or a portion of any Note, surrendered for repurchase (and not withdrawn) in accordance with Article 15 or (iii) any Notes selected for redemption in accordance with Article 16, except the unredeemed portion of any Note being redeemed in part.

All Notes issued upon any registration of transfer or exchange of Notes in accordance with this Indenture shall be the valid obligations of the Company, evidencing the same debt, and entitled to the same benefits under this Indenture as the Notes surrendered upon such registration of transfer or exchange.

(b) So long as the Notes are eligible for book-entry settlement with the Depositary, unless otherwise required by law, subject to the fourth paragraph from the end of Section 2.05(c) all Notes shall be represented by one or more Notes in global form (each, a “**Global Note**”) registered in the name of the Depositary or the nominee of the Depositary. Each Global Note shall bear the legend required on a Global Note set forth in Exhibit A hereto. The transfer and exchange of beneficial interests in a Global Note that does not involve the issuance of a Physical Note shall be effected through the Depositary (but not the Trustee or the Custodian) in accordance with this Indenture (including the restrictions on transfer set forth herein) and the procedures of the Depositary therefor.

(c) Every Note that bears or is required under this Section 2.05(c) to bear the legend set forth in this Section 2.05(c) (together with any Common Stock issued upon conversion of the Notes that is required to bear the legend set forth in Section 2.05(d), collectively, the “**Restricted Securities**”) shall be subject to the restrictions on transfer set forth in this Section 2.05(c) (including those contained in the legend set forth below), unless such restrictions on transfer shall be eliminated or otherwise waived by written consent of the Company, and the Holder of each such Restricted Security, by such Holder’s acceptance thereof, agrees to be bound by all such restrictions on transfer. As used in this Section 2.05(c) and Section 2.05(d), the term “**transfer**” encompasses any sale, pledge, transfer or other disposition whatsoever of any Restricted Security.

Until the date (the “**Resale Restriction Termination Date**”) that is the later of (1) the date that is one year after the last date of original issuance of the Notes, or such shorter period of time as permitted by Rule 144 or any successor provision thereto, and (2) such later date, if any, as may be required by applicable law, any certificate evidencing such Note (and all securities issued in exchange therefor or substitution thereof, other than Common Stock, if any, issued upon conversion thereof, which shall bear the legend set forth in Section 2.05(d), if applicable) shall bear a legend in substantially the following form (unless such Notes have been transferred pursuant to a registration statement that has become or been declared effective under the Securities Act and that continues to be effective at the time of such transfer, or sold pursuant to the exemption from registration provided by Rule 144 or any similar provision then in force under the Securities Act, or unless otherwise agreed by the Company in writing, with notice thereof to the Trustee):

THIS SECURITY AND THE COMMON STOCK, IF ANY, ISSUABLE UPON CONVERSION OF THIS SECURITY HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “**SECURITIES ACT**”), AND MAY NOT BE OFFERED, SOLD, PLEDGED OR OTHERWISE TRANSFERRED EXCEPT IN ACCORDANCE WITH THE FOLLOWING SENTENCE. BY ITS ACQUISITION HEREOF OR OF A BENEFICIAL INTEREST HEREIN, THE ACQUIRER:

(1) REPRESENTS THAT IT AND ANY ACCOUNT FOR WHICH IT IS ACTING IS A “QUALIFIED INSTITUTIONAL BUYER” (WITHIN THE MEANING OF RULE 144A UNDER THE SECURITIES ACT) AND THAT IT EXERCISES SOLE INVESTMENT DISCRETION WITH RESPECT TO EACH SUCH ACCOUNT, AND

(2) AGREES FOR THE BENEFIT OF HARMONIC INC. (THE “COMPANY”) THAT IT WILL NOT OFFER, SELL, PLEDGE OR OTHERWISE TRANSFER THIS SECURITY OR ANY BENEFICIAL INTEREST HEREIN PRIOR TO THE DATE THAT IS THE LATER OF (X) ONE YEAR AFTER THE LAST ORIGINAL ISSUE DATE HEREOF OR SUCH SHORTER PERIOD OF TIME AS PERMITTED BY RULE 144 UNDER THE SECURITIES ACT OR ANY SUCCESSOR PROVISION THERETO AND (Y) SUCH LATER DATE, IF ANY, AS MAY BE REQUIRED BY APPLICABLE LAW, EXCEPT:

- (A) TO THE COMPANY OR ANY SUBSIDIARY THEREOF, OR
- (B) PURSUANT TO A REGISTRATION STATEMENT WHICH HAS BECOME EFFECTIVE UNDER THE SECURITIES ACT, OR
- (C) TO A QUALIFIED INSTITUTIONAL BUYER IN COMPLIANCE WITH RULE 144A UNDER THE SECURITIES ACT, OR
- (D) PURSUANT TO AN EXEMPTION FROM REGISTRATION PROVIDED BY RULE 144 UNDER THE SECURITIES ACT OR ANY OTHER AVAILABLE EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT.

PRIOR TO THE REGISTRATION OF ANY TRANSFER IN ACCORDANCE WITH CLAUSE (2)(D) ABOVE, THE COMPANY AND THE TRUSTEE RESERVE THE RIGHT TO REQUIRE THE DELIVERY OF SUCH LEGAL OPINIONS, CERTIFICATIONS OR OTHER EVIDENCE AS MAY REASONABLY BE REQUIRED IN ORDER FOR THE COMPANY TO DETERMINE THAT THE PROPOSED TRANSFER IS BEING MADE IN COMPLIANCE WITH THE SECURITIES ACT AND APPLICABLE STATE SECURITIES LAWS. NO REPRESENTATION IS MADE AS TO THE AVAILABILITY OF ANY EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT.

No transfer of any Note prior to the Resale Restriction Termination Date will be registered by the Note Registrar unless the applicable box on the Form of Assignment and Transfer has been checked.

Any Note (or security issued in exchange or substitution therefor) (i) as to which such restrictions on transfer shall have expired in accordance with their terms, (ii) that has been transferred pursuant to a registration statement that has become effective or been declared effective under the Securities Act and that continues to be effective at the time of such transfer or (iii) that has been sold pursuant to the exemption from registration provided by Rule 144 or any similar provision then in force under the Securities Act, may, upon surrender of such Note for exchange to the Note Registrar in accordance with the provisions of this Section 2.05, be

exchanged for a new Note or Notes, of like tenor and aggregate principal amount, which shall not bear the restrictive legend required by this Section 2.05(c) and shall not be assigned a restricted CUSIP number. The Company shall be entitled to instruct the Custodian in writing to so surrender any Global Note as to which any of the conditions set forth in clause (i) through (iii) of the immediately preceding sentence have been satisfied, and, upon such instruction, the Custodian shall so surrender such Global Note for exchange; and any new Global Note so exchanged therefor shall not bear the restrictive legend specified in this Section 2.05(c) and shall not be assigned a restricted CUSIP number. The Company shall promptly notify the Trustee upon the occurrence of the Resale Restriction Termination Date and promptly after a registration statement, if any, with respect to the Notes or any Common Stock issued upon conversion of the Notes has been declared effective under the Securities Act. Any exchange pursuant to this paragraph shall be in accordance with the applicable procedures of the Depository.

Notwithstanding any other provisions of this Indenture (other than the provisions set forth in this Section 2.05(c)), a Global Note may not be transferred as a whole or in part except (i) by the Depository to a nominee of the Depository or by a nominee of the Depository to the Depository or another nominee of the Depository or by the Depository or any such nominee to a successor Depository or a nominee of such successor Depository and (ii) for exchange of a Global Note or a portion thereof for one or more Physical Notes in accordance with the second immediately succeeding paragraph.

The Depository shall be a clearing agency registered under the Exchange Act. The Company initially appoints The Depository Trust Company to act as Depository with respect to each Global Note. Initially, each Global Note shall be issued to the Depository, registered in the name of Cede & Co., as the nominee of the Depository, and deposited with the Trustee as custodian for Cede & Co.

If (i) the Depository notifies the Company at any time that the Depository is unwilling or unable to continue as depository for the Global Notes and a successor depository is not appointed within 90 days, (ii) the Depository ceases to be registered as a clearing agency under the Exchange Act and a successor depository is not appointed within 90 days or (iii) an Event of Default with respect to the Notes has occurred and is continuing and a beneficial owner of any Note requests that its beneficial interest therein be issued as a Physical Note, the Company shall execute, and the Trustee, upon receipt of an Officer's Certificate and a Company Order for the authentication and delivery of Notes, shall authenticate and deliver, at the Company's expense, (x) in the case of clause (iii), a Physical Note to such beneficial owner in a principal amount equal to the principal amount of such Note corresponding to such beneficial owner's beneficial interest and (y) in the case of clause (i) or (ii), Physical Notes to each beneficial owner of the related Global Notes (or a portion thereof) in an aggregate principal amount equal to the aggregate principal amount of such Global Notes in exchange for such Global Notes, and upon delivery of the Global Notes to the Trustee such Global Notes shall be canceled.

Physical Notes issued in exchange for all or a part of the Global Note pursuant to this Section 2.05(c) shall be registered in such names and in such authorized denominations as the Depository, pursuant to instructions from its direct or indirect participants or otherwise, or, in the case of clause (iii) of the immediately preceding paragraph, the relevant beneficial owner, shall instruct the Trustee. Upon execution and authentication, the Trustee shall deliver, at the Company's expense, such Physical Notes to the Persons in whose names such Physical Notes are so registered.

At such time as all interests in a Global Note have been converted, canceled, repurchased, redeemed or transferred, such Global Note shall be, upon receipt thereof, canceled by the Trustee in accordance with standing procedures and existing instructions between the Depository and the Custodian. At any time prior to such cancellation, if any interest in a Global Note is exchanged for Physical Notes, converted, canceled, repurchased, redeemed or transferred to a transferee who receives Physical Notes therefor or any Physical Note is exchanged or transferred for part of such Global Note, the principal amount of such Global Note shall, in accordance with the standing procedures and instructions existing between the Depository and the Custodian, be appropriately reduced or increased, as the case may be, and an endorsement shall be made on such Global Note, by the Trustee or the Custodian, at the direction of the Trustee, to reflect such reduction or increase.

None of the Company, the Trustee or any agent of the Company or the Trustee shall have any responsibility or liability for any aspect of the records relating to or payments made on account of beneficial ownership interests of a Global Note or maintaining, supervising or reviewing any records relating to such beneficial ownership interests.

(d) Until the Resale Restriction Termination Date, any stock certificate representing Common Stock issued upon conversion of a Note shall bear a legend in substantially the following form (unless such Common Stock has been transferred pursuant to a registration statement that has become or been declared effective under the Securities Act and that continues to be effective at the time of such transfer, or pursuant to the exemption from registration provided by Rule 144 or any similar provision then in force under the Securities Act, or such Common Stock has been issued upon conversion of a Note that has been transferred pursuant to a registration statement that has become or been declared effective under the Securities Act and that continues to be effective at the time of such transfer, or pursuant to the exemption from registration provided by Rule 144 or any similar provision then in force under the Securities Act, or unless otherwise agreed by the Company with written notice thereof to the Trustee and any transfer agent for the Common Stock):

THIS SECURITY HAS NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “**SECURITIES ACT**”), AND MAY NOT BE OFFERED, SOLD, PLEDGED OR OTHERWISE TRANSFERRED EXCEPT IN ACCORDANCE WITH THE FOLLOWING SENTENCE. BY ITS ACQUISITION HEREOF OR OF A BENEFICIAL INTEREST HEREIN, THE ACQUIRER:

(1) REPRESENTS THAT IT AND ANY ACCOUNT FOR WHICH IT IS ACTING IS A “QUALIFIED INSTITUTIONAL BUYER” (WITHIN THE MEANING OF RULE 144A UNDER THE SECURITIES ACT) AND THAT IT EXERCISES SOLE INVESTMENT DISCRETION WITH RESPECT TO EACH SUCH ACCOUNT, AND

(2) AGREES FOR THE BENEFIT OF HARMONIC INC. (THE “COMPANY”) THAT IT WILL NOT OFFER, SELL, PLEDGE OR OTHERWISE TRANSFER THIS SECURITY OR ANY BENEFICIAL INTEREST HEREIN PRIOR TO THE DATE THAT IS THE LATER OF (X) ONE YEAR AFTER THE LAST ORIGINAL ISSUE DATE OF THE SERIES OF NOTES UPON THE CONVERSION OF WHICH THIS SECURITY WAS ISSUED OR SUCH SHORTER PERIOD OF TIME AS PERMITTED BY RULE 144 UNDER THE SECURITIES ACT OR ANY SUCCESSOR PROVISION THERETO AND (Y) SUCH LATER DATE, IF ANY, AS MAY BE REQUIRED BY APPLICABLE LAW, EXCEPT:

- (A) TO THE COMPANY OR ANY SUBSIDIARY THEREOF, OR
- (B) PURSUANT TO A REGISTRATION STATEMENT WHICH HAS BECOME EFFECTIVE UNDER THE SECURITIES ACT, OR
- (C) TO A QUALIFIED INSTITUTIONAL BUYER IN COMPLIANCE WITH RULE 144A UNDER THE SECURITIES ACT, OR
- (D) PURSUANT TO AN EXEMPTION FROM REGISTRATION PROVIDED BY RULE 144 UNDER THE SECURITIES ACT OR ANY OTHER AVAILABLE EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT.

PRIOR TO THE REGISTRATION OF ANY TRANSFER IN ACCORDANCE WITH CLAUSE (2)(D) ABOVE, THE COMPANY AND THE TRANSFER AGENT FOR THE COMPANY’S COMMON STOCK RESERVE THE RIGHT TO REQUIRE THE DELIVERY OF SUCH LEGAL OPINIONS, CERTIFICATIONS OR OTHER EVIDENCE AS MAY REASONABLY BE REQUIRED IN ORDER FOR THE COMPANY TO DETERMINE THAT THE PROPOSED TRANSFER IS BEING MADE IN COMPLIANCE WITH THE SECURITIES ACT AND APPLICABLE STATE SECURITIES LAWS. NO REPRESENTATION IS MADE AS TO THE AVAILABILITY OF ANY EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT.

Any such Common Stock (i) as to which such restrictions on transfer shall have expired in accordance with their terms, (ii) that has been transferred pursuant to a registration statement that has become or been declared effective under the Securities Act and that continues to be effective at the time of such transfer or (iii) that has been sold pursuant to the exemption from registration provided by Rule 144 or any similar provision then in force under the Securities Act, may, upon surrender of the certificates representing such shares of Common Stock for exchange in accordance with the procedures of the transfer agent for the Common Stock, be exchanged for a new certificate or certificates for a like aggregate number of shares of Common Stock, which shall not bear the restrictive legend required by this Section 2.05(d).

(e) Any Note or Common Stock issued upon the conversion or exchange of a Note that is repurchased or owned by any Affiliate of the Company (or any Person who was an Affiliate of the Company at any time during the three months preceding) may not be resold by such Affiliate (or such Person, as the case may be) unless registered under the Securities Act or resold pursuant to an exemption from the registration requirements of the Securities Act in a transaction that results in such Note or Common Stock, as the case may be, no longer being a “restricted security” (as defined under Rule 144).

(f) The Trustee shall have no obligation or duty to monitor, determine or inquire as to compliance with any restrictions on transfer imposed under this Indenture or under applicable law with respect to any transfer of any interest in any Note (including any transfers between or among Depository participants or beneficial owners of interests in any Global Note) other than to require delivery of such certificates and other documentation or evidence as are expressly required by, and to do so if and when expressly required by the terms of, this Indenture, and to examine the same to determine substantial compliance as to form with the express requirements hereof.

(g) Neither the Company nor the Trustee, Paying Agent or Conversion Agent shall have any responsibility or liability for any actions taken or not taken by the Depository.

Section 2.06. *Mutilated, Destroyed, Lost or Stolen Notes.* In case any Note shall become mutilated or be destroyed, lost or stolen, the Company in its discretion may execute, and upon its written request the Trustee or an authenticating agent appointed by the Trustee shall authenticate and deliver, a new Note, bearing a registration number not contemporaneously outstanding, in exchange and substitution for the mutilated Note, or in lieu of and in substitution for the Note so destroyed, lost or stolen. In every case the applicant for a substituted Note shall furnish to the Company, to the Trustee and, if applicable, to such authenticating agent such security or indemnity as may be required by them to save each of them harmless from any loss, liability, cost or expense caused by or connected with such substitution, and, in every case of destruction, loss or theft, the applicant shall also furnish to the Company, to the Trustee and, if applicable, to such authenticating agent evidence to their satisfaction of the destruction, loss or theft of such Note and of the ownership thereof.

The Trustee or such authenticating agent may authenticate any such substituted Note and deliver the same upon the receipt of such security or indemnity as the Trustee, the Company and, if applicable, such authenticating agent may require. No service charge shall be imposed by the Company, the Trustee, the Note Registrar, any co-Note Registrar or the Paying Agent upon the issuance of any substitute Note, but the Company may require a Holder to pay a sum sufficient to cover any documentary, stamp or similar issue or transfer tax required in connection therewith as a result of the name of the Holder of the new substitute Note being different from the name of the Holder of the old Note that became mutilated or was destroyed, lost or stolen. In case any Note that has matured or is about to mature or has been surrendered for required repurchase or is about to be converted in accordance with Article 14 shall become mutilated or be destroyed, lost or stolen, the Company may, in its sole discretion, instead of issuing a substitute Note, pay or authorize the payment of or convert or authorize the conversion of the same (without surrender thereof except in the case of a mutilated Note), as the case may be, if the applicant for such payment or conversion shall furnish to the Company, to the Trustee and, if applicable, to such authenticating agent such security or indemnity as may be required by them to save each of them harmless for any loss, liability, cost or expense caused by or connected with such substitution, and, in every case of destruction, loss or theft, evidence satisfactory to the Company, the Trustee and, if applicable, any Paying Agent or Conversion Agent of the destruction, loss or theft of such Note and of the ownership thereof.

Every substitute Note issued pursuant to the provisions of this Section 2.06 by virtue of the fact that any Note is destroyed, lost or stolen shall constitute an additional contractual obligation of the Company, whether or not the destroyed, lost or stolen Note shall be found at any time, and shall be entitled to all the benefits of (but shall be subject to all the limitations set forth in) this Indenture equally and proportionately with any and all other Notes duly issued hereunder. To the extent permitted by law, all Notes shall be held and owned upon the express condition that the foregoing provisions are exclusive with respect to the replacement, redemption, payment, conversion or repurchase of mutilated, destroyed, lost or stolen Notes and shall preclude any and all other rights or remedies notwithstanding any law or statute existing or hereafter enacted to the contrary with respect to the replacement, redemption, payment, conversion or repurchase of negotiable instruments or other securities without their surrender.

Section 2.07. *Temporary Notes.* Pending the preparation of Physical Notes, the Company may execute and the Trustee or an authenticating agent appointed by the Trustee shall, upon written request of the Company, authenticate and deliver temporary Notes (printed or lithographed). Temporary Notes shall be issuable in any authorized denomination, and substantially in the form of the Physical Notes but with such omissions, insertions and variations as may be appropriate for temporary Notes, all as may be determined by the Company. Every such temporary Note shall be executed by the Company and authenticated by the Trustee or such authenticating agent upon the same conditions and in substantially the same manner, and with the same effect, as the Physical Notes. Without unreasonable delay, the Company shall execute and deliver to the Trustee or such authenticating agent Physical Notes (other than any Global Note) and thereupon any or all temporary Notes (other than any Global Note) may be surrendered in exchange therefor, at each office or agency maintained by the Company pursuant to Section 4.02 and the Trustee or such authenticating agent shall authenticate and deliver in exchange for such temporary Notes an equal aggregate principal amount of Physical Notes. Such exchange shall be made by the Company at its own expense and without any charge therefor. Until so exchanged, the temporary Notes shall in all respects be entitled to the same benefits and subject to the same limitations under this Indenture as Physical Notes authenticated and delivered hereunder.

Section 2.08. *Cancellation of Notes Paid, Converted, Etc.* Subject to Section 2.10, the Company shall cause all Notes surrendered for the purpose of payment, repurchase, redemption, registration of transfer or exchange or conversion to be delivered to the Trustee for cancellation. All Notes delivered to the Trustee shall be canceled promptly by it. Except for any Notes surrendered for registration of transfer or exchange, or as otherwise expressly permitted by any of the provisions of this Indenture, no Notes shall be authenticated in exchange for any Notes surrendered to the Trustee for cancellation. The Trustee shall dispose of canceled Notes in accordance with its customary procedures and, after such disposition, shall deliver a certificate of such disposition to the Company, at the Company's written request in a Company Order.

Section 2.09. *CUSIP Numbers.* The Company in issuing the Notes may use "CUSIP" numbers (if then generally in use), and, if so, the Trustee shall use "CUSIP" numbers in all notices issued to Holders as a convenience to such Holders; *provided* that any such notice may state that no representation is made as to the correctness of such numbers either as printed on the Notes or on such notice and that reliance may be placed only on the other identification numbers printed on the Notes. The Company shall promptly notify the Trustee in writing of any change in the "CUSIP" numbers.

Section 2.10. *Additional Notes; Repurchases.* The Company may, without the consent of or notice to the Holders and notwithstanding Section 2.01, reopen this Indenture and issue additional Notes hereunder with the same terms as the Notes initially issued hereunder (other than differences in the issue date, the issue price, interest accrued prior to the issue date of such additional Notes and, if applicable, restrictions on transfer in respect of such additional Notes) in an unlimited aggregate principal amount; *provided* that if any such additional Notes are not fungible with the Notes initially issued hereunder for U.S. federal income tax or securities law purposes, such additional Notes shall have one or more separate CUSIP numbers. Prior to the issuance of any such additional Notes, the Company shall deliver to the Trustee a Company Order, an Officer's Certificate and an Opinion of Counsel, such Officer's Certificate and Opinion of Counsel to cover such matters, in addition to those required by Section 17.05, as the Trustee shall reasonably request. In addition, the Company may, to the extent permitted by law, and without the consent of or notice to Holders, directly or indirectly (regardless of whether such Notes are surrendered to the Company), repurchase Notes in the open market or otherwise, whether by the Company or its Subsidiaries or through a private or public tender or exchange offer or through counterparties to private agreements, including by cash-settled swaps or other derivatives. The Company may, at its option, surrender to the Trustee for cancellation any Notes that the Company may repurchase, or, to the extent permitted by applicable law, reissue or resell any such Notes so long as such Notes do not constitute "restricted securities" (as defined under Rule 144) upon such reissuance or resale. Any Notes that the Company may repurchase shall be considered outstanding under this Indenture (except for voting purposes as set forth in Section 8.04) unless and until such time as the Company surrenders them to the Trustee for cancellation and, upon receipt of a Company Order from the Company, the Trustee shall cancel all Notes so surrendered.

### ARTICLE 3 SATISFACTION AND DISCHARGE

Section 3.01. *Satisfaction and Discharge.* This Indenture shall upon request of the Company contained in an Officer's Certificate cease to be of further effect, and the Trustee, at the expense of the Company, shall execute such instruments reasonably requested by the Company acknowledging satisfaction and discharge of this Indenture and the Notes, when (a) (i) all Notes theretofore authenticated and delivered (other than Notes which have been destroyed, lost or stolen and which have been replaced, paid or converted as provided in Section 2.06) have been delivered to the Trustee for cancellation; or (ii) the Company has deposited with the Trustee or delivered to Holders, as applicable, after the Notes have become due and payable, whether on the Maturity Date, any Redemption Date, any Fundamental Change Repurchase Date, upon conversion or otherwise, cash or cash, shares of Common Stock or a combination thereof, as applicable, solely to satisfy the Company's Conversion Obligation, sufficient to pay all of the outstanding Notes and all other sums due and payable under this Indenture by the Company; and (b) the Company has delivered to the Trustee an Officer's Certificate and an Opinion of Counsel, each stating that all conditions precedent herein provided for relating to the satisfaction and discharge of this Indenture and the Notes have been complied with. Notwithstanding the satisfaction and discharge of this Indenture, the obligations of the Company to the Trustee under Section 7.06 shall survive.

ARTICLE 4  
PARTICULAR COVENANTS OF THE COMPANY

Section 4.01. *Payment of Principal and Interest.* The Company covenants and agrees that it will cause to be paid the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, and accrued and unpaid interest (including any Additional Interest) on, each of the Notes at the places, at the respective times and in the manner provided herein and in the Notes.

Section 4.02. *Maintenance of Office or Agency.* The Company will maintain in the continental United States of America, an office or agency where the Notes may be surrendered for registration of transfer or exchange or for presentation for payment or repurchase (“**Paying Agent**”) or for conversion (“**Conversion Agent**”) and where notices and demands to or upon the Company in respect of the Notes and this Indenture may be served. The Company will give prompt written notice to the Trustee of the location, and any change in the location, of such office or agency. If at any time the Company shall fail to maintain any such required office or agency or shall fail to furnish the Trustee with the address thereof, such presentations, surrenders, notices and demands may be made or served at the Corporate Trust Office or any other office or agency in the continental United States of America so designated by the Trustee as a place where Notes may be presented for payment or for registration of transfer.

The Company may also from time to time designate as co-Note Registrars one or more other offices or agencies where the Notes may be presented or surrendered for any or all such purposes and may from time to time rescind such designations; *provided* that no such designation or rescission shall in any manner relieve the Company of its obligation to maintain an office or agency in the continental United States of America for such purposes. The Company will give prompt written notice to the Trustee of any such designation or rescission and of any change in the location of any such other office or agency. The terms “**Paying Agent**” and “**Conversion Agent**” include any such additional or other offices or agencies, as applicable.

The Company hereby initially designates the Trustee as the Paying Agent, Note Registrar, Custodian and Conversion Agent and the Corporate Trust Office as the office or agency in the continental United States of America, where Notes may be surrendered for registration of transfer or exchange or for presentation for payment or repurchase or for conversion and where notices and demands to or upon the Company in respect of the Notes and this Indenture may be served; *provided* that the Corporate Trust Office shall not be an office or agency of the Company for the purpose of effecting service of legal process on the Company.

Section 4.03. *Appointments to Fill Vacancies in Trustee’s Office.* The Company, whenever necessary to avoid or fill a vacancy in the office of Trustee, will appoint, in the manner provided in Section 7.09, a Trustee, so that there shall at all times be a Trustee hereunder.

Section 4.04. *Provisions as to Paying Agent.* (a) If the Company shall appoint a Paying Agent other than the Trustee, the Company will cause such Paying Agent to execute and deliver to the Trustee an instrument in which such agent shall agree with the Trustee, subject to the provisions of this Section 4.04:

(i) that it will hold all sums held by it as such agent for the payment of the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, and accrued and unpaid interest on, the Notes in trust for the benefit of the Holders of the Notes;

(ii) that it will give the Trustee prompt notice of any failure by the Company to make any payment of the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, and accrued and unpaid interest on, the Notes when the same shall be due and payable; and

(iii) that at any time during the continuance of an Event of Default, upon request of the Trustee, it will forthwith pay to the Trustee all sums so held in trust.

The Company shall, on or before each due date of the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, or accrued and unpaid interest on, the Notes, deposit with the Paying Agent a sum sufficient to pay such principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) or accrued and unpaid interest, and (unless such Paying Agent is the Trustee) the Company will promptly notify the Trustee of any failure to take such action; *provided* that if such deposit is made on the due date, such deposit must be received by the Paying Agent by 11:00 a.m., New York City time, on such date.

(b) If the Company shall act as its own Paying Agent, it will, on or before each due date of the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, and accrued and unpaid interest on, the Notes, set aside, segregate and hold in trust for the benefit of the Holders of the Notes a sum sufficient to pay such principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) and accrued and unpaid interest so becoming due and will promptly notify the Trustee in writing of any failure to take such action and of any failure by the Company to make any payment of the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, or accrued and unpaid interest on, the Notes when the same shall become due and payable.

(c) Anything in this Section 4.04 to the contrary notwithstanding, the Company may, at any time, for the purpose of obtaining a satisfaction and discharge of this Indenture, or for any other reason, pay, cause to be paid or deliver to the Trustee all sums or amounts held in trust by the Company or any Paying Agent hereunder as required by this Section 4.04, such sums or amounts to be held by the Trustee upon the trusts herein contained and upon such payment or delivery by the Company or any Paying Agent to the Trustee, the Company or such Paying Agent shall be released from all further liability but only with respect to such sums or amounts.

(d) Any money and shares of Common Stock deposited with the Trustee or any Paying Agent, or then held by the Company, in trust for the payment of the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, accrued and unpaid interest on, and the consideration due upon conversion of, any Note and remaining unclaimed for two years after such principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable), interest or consideration due upon

conversion has become due and payable shall be paid to the Company on request of the Company contained in an Officer's Certificate, or (if then held by the Company) shall be discharged from such trust; and the Holder of such Note shall thereafter, as an unsecured general creditor, look only to the Company for payment thereof, and all liability of the Trustee or such Paying Agent with respect to such trust money and shares of Common Stock, and all liability of the Company as trustee thereof, shall thereupon cease; *provided, however*, that the Trustee or such Paying Agent, before being required to make any such repayment, may at the expense of the Company cause to be published once, in a newspaper published in the English language, customarily published on each Business Day and of general circulation in The Borough of Manhattan, The City of New York, notice that such money and shares of Common Stock remain unclaimed and that, after a date specified therein, which shall not be less than 30 days from the date of such publication, any unclaimed balance of such money and shares of Common Stock then remaining will be repaid or delivered to the Company.

(e) In the event that the Paying Agent receives funds in advance of any due date hereunder, the Paying Agent shall be entitled (but not obligated) to invest such funds in the U.S. Bank Money Market Deposit Account or any substantially similar successor account, any earnings on which shall be for the account of the Company.

(f) Upon any Event of Default pursuant to Section 6.01(h) or (i), the Trustee shall automatically become the Paying Agent.

Section 4.05. *Existence*. Subject to Article 11, the Company shall do or cause to be done all things necessary to preserve and keep in full force and effect its corporate existence.

Section 4.06. *Rule 144A Information Requirement and Annual Reports*. (a) At any time the Company is not subject to Section 13 or 15(d) of the Exchange Act, the Company shall, so long as any of the Notes or any shares of Common Stock issuable upon conversion thereof shall, at such time, constitute "restricted securities" within the meaning of Rule 144(a)(3) under the Securities Act, promptly provide to the Trustee and, upon written request, to any Holder, beneficial owner or prospective purchaser of such Notes or any shares of Common Stock issuable upon conversion of such Notes, the information required to be delivered pursuant to Rule 144A(d)(4) under the Securities Act to facilitate the resale of such Notes or shares of Common Stock pursuant to Rule 144A.

(b) The Company shall file with the Trustee, within 15 days after the same are required to be filed with the Commission (giving effect to any grace period provided by Rule 12b-25 (or any successor rule) under the Exchange Act), copies of any documents or reports that the Company is required to file with the Commission pursuant to Section 13 or 15(d) of the Exchange Act (excluding any such information, documents or reports, or portions thereof, subject to confidential treatment and any correspondence with the Commission). Any such document or report that the Company files with the Commission via the Commission's EDGAR system or any successor thereto shall be deemed to be filed with the Trustee for purposes of this Section 4.06(b) at the time such documents are filed via the EDGAR system or any successor thereto. The Trustee shall not be responsible for determining whether such filings have been made.

(c) Delivery of the reports and documents described in subsection (b) above to the Trustee is for informational purposes only, and the information and the Trustee's receipt of such shall not constitute constructive notice of any information contained therein or determinable from information contained therein, including the Company's compliance with any of its covenants hereunder (as to which the Trustee is entitled to conclusively rely on an Officer's Certificate).

(d) If, at any time during the six-month period beginning on, and including, the date that is six months after the last date of original issuance of the Notes, the Company fails to timely file any document or report that it is required to file with the Commission pursuant to Section 13 or 15(d) of the Exchange Act, as applicable (after giving effect to all applicable grace periods thereunder and other than reports on Form 8-K), or the Notes are not otherwise freely tradable pursuant to Rule 144 by Holders other than the Company's Affiliates or Holders that were the Company's Affiliates at any time during the three months immediately preceding (as a result of restrictions pursuant to U.S. securities laws or the terms of this Indenture or the Notes), the Company shall pay Additional Interest on the Notes. Such Additional Interest shall accrue on the Notes at the rate of 0.50% per annum of the principal amount of the Notes outstanding for each day during such period for which the Company's failure to file has occurred and is continuing or the Notes are not otherwise freely tradable pursuant to Rule 144 by Holders other than the Company's Affiliates (or Holders that have been the Company's Affiliates at any time during the three months immediately preceding) without restrictions pursuant to U.S. securities laws or the terms of this Indenture or the Notes. As used in this Section 4.06(d), documents or reports that the Company is required to "file" with the Commission pursuant to Section 13 or 15(d) of the Exchange Act does not include documents or reports that the Company furnishes to the Commission pursuant to Section 13 or 15(d) of the Exchange Act.

(e) If, and for so long as, the restrictive legend on the Notes specified in Section 2.05(c) has not been removed, the Notes are assigned a restricted CUSIP number or the Notes are not otherwise freely tradable pursuant to Rule 144 by Holders other than the Company's Affiliates or Holders that have been the Company's Affiliates at any time during the three months immediately preceding (without restrictions pursuant to U.S. securities laws or the terms of this Indenture or the Notes) as of the 380th day after the last date of original issuance of the Notes (a "**Registration Default**"), the Company shall pay Additional Interest on the Notes at a rate equal to 0.50% per annum of the principal amount of Notes outstanding until the restrictive legend on the Notes has been removed in accordance with Section 2.05(c), the Notes are assigned an unrestricted CUSIP number and the Notes are freely tradable pursuant to Rule 144 by Holders other than the Company's Affiliates (or Holders that have been the Company's Affiliates at any time during the three months immediately preceding) without restrictions pursuant to U.S. securities laws or the terms of this Indenture or the Notes.

(f) Additional Interest will be payable in arrears on each Interest Payment Date following accrual in the same manner as regular interest on the Notes.

(g) The Additional Interest that is payable in accordance with Section 4.06(d) or Section 4.06(e) shall be in addition to, and not in lieu of, any Additional Interest that may be payable as a result of the Company's election pursuant to Section 6.03. Notwithstanding the foregoing, in no event shall Additional Interest with respect to the Notes payable pursuant to Section 4.06(d) as a result of the Company's failure to timely file any document or report that the Company is required to file with the Commission pursuant to Section 13 or 15(d) of the Exchange Act, as applicable (after giving effect to all applicable grace periods thereunder), together with any Additional Interest that may accrue at the Company's election pursuant to Section 6.03, accrue at a rate in excess of 0.50% per annum pursuant to this Indenture, regardless of the number of events or circumstances giving rise to the requirement to pay such Additional Interest.

(h) If Additional Interest is payable by the Company pursuant to Section 4.06(d) or Section 4.06(e), the Company shall deliver to the Trustee an Officer's Certificate to that effect stating (i) the amount of such Additional Interest that is payable and (ii) the date on which such Additional Interest is payable. Unless and until a Responsible Officer of the Trustee receives at the Corporate Trust Office such a certificate, the Trustee may assume without inquiry that no such Additional Interest is payable. If the Company has paid Additional Interest directly to the Persons entitled to it, the Company shall deliver to the Trustee an Officer's Certificate setting forth the particulars of such payment. The Trustee shall have no duty to determine or verify the Company's determinations of whether and to what extent Additional Interest is due or the Company's calculations as to the amount of such Additional Interest payable.

(i) For the avoidance of doubt, in the event additional Notes are issued under this Indenture pursuant to Section 2.10 and such additional Notes are Restricted Securities, for purposes of determining whether Additional Interest shall be payable pursuant to Section 4.06(d) or Section 4.06(e) with respect to any Notes issued under this Indenture, all Notes that were not issued with the same CUSIP number shall be considered separately.

Section 4.07. *Stay, Extension and Usury Laws.* The Company covenants (to the extent that it may lawfully do so) that it shall not at any time insist upon, plead, or in any manner whatsoever claim or take the benefit or advantage of, any stay, extension or usury law or other law that would prohibit or forgive the Company from paying all or any portion of the principal of or interest on the Notes as contemplated herein, wherever enacted, now or at any time hereafter in force, or that may affect the covenants or the performance of this Indenture; and the Company (to the extent it may lawfully do so) hereby expressly waives all benefit or advantage of any such law, and covenants that it will not, by resort to any such law, hinder, delay or impede the execution of any power herein granted to the Trustee, but will suffer and permit the execution of every such power as though no such law had been enacted.

Section 4.08. *Compliance Certificate; Statements as to Defaults.* The Company shall deliver to the Trustee within 120 days after the end of each fiscal year of the Company (beginning with the fiscal year ending on December 31, 2019) an Officer's Certificate stating whether the signers thereof have knowledge of any failure by the Company to comply with all conditions and covenants then required to be performed under this Indenture and, if so, specifying each such failure and the nature thereof.

In addition, the Company shall deliver to the Trustee, as soon as possible, and in any event within 30 days after the occurrence of any Event of Default or Default, an Officer's Certificate setting forth the details of such Event of Default or Default, its status and the action that the Company is taking or proposing to take in respect thereof; *provided* that no notice shall be required in respect of any Default if the event that would constitute a Default has been cured or waived before the date on which the Company is required to deliver such notice pursuant to this Section 4.08.

Section 4.09. *Further Instruments and Acts.* Upon request of the Trustee, the Company will execute and deliver such further instruments and do such further acts as may be reasonably necessary or proper to carry out more effectively the purposes of this Indenture.

ARTICLE 5  
LISTS OF HOLDERS AND REPORTS BY THE COMPANY AND THE TRUSTEE

Section 5.01. *Lists of Holders.* The Company covenants and agrees that it will furnish or cause to be furnished to the Trustee and any Paying Agent (if other than the Trustee), semi-annually, not more than 15 days after each February 15 and August 15 in each year beginning with February 15, 2020, and at such other times as the Trustee may request in writing, within 30 days after receipt by the Company of any such request (or such lesser time as the Trustee may reasonably request in order to enable it to timely provide any notice to be provided by it hereunder), a list in such form as the Trustee may reasonably require of the names and addresses of the Holders as of a date not more than 15 days (or such other date as the Trustee may reasonably request in order to so provide any such notices) prior to the time such information is furnished, except that no such list need be furnished so long as the Trustee is acting as Note Registrar.

Section 5.02. *Preservation and Disclosure of Lists.* The Trustee shall preserve, in as current a form as is reasonably practicable, all information as to the names and addresses of the Holders contained in the most recent list furnished to it as provided in Section 5.01 or maintained by the Trustee in its capacity as Note Registrar, if so acting. The Trustee may destroy any list furnished to it as provided in Section 5.01 upon receipt of a new list so furnished.

ARTICLE 6  
DEFAULTS AND REMEDIES

Section 6.01. *Events of Default.* Each of the following events shall be an “**Event of Default**” with respect to the Notes:

- (a) default in any payment of interest on any Note when due and payable, and the default continues for a period of 30 days;
- (b) default in the payment of principal of any Note when due and payable on the Maturity Date, upon Optional Redemption, upon any required repurchase, upon declaration of acceleration or otherwise;
- (c) failure by the Company to comply with its obligation to convert the Notes in accordance with this Indenture upon exercise of a Holder’s conversion right and such failure continues for three Business Days;

(d) failure by the Company to issue a Fundamental Change Company Notice in accordance with Section 15.02(c) or notice of a specified corporate event in accordance with Section 14.01(b)(ii) or 14.01(b)(iii), in each case when due;

(e) failure by the Company to comply with its obligations under Article 11;

(f) failure by the Company for 60 days after written notice from the Trustee or the Holders of at least 25% in aggregate principal amount of the Notes then outstanding has been received by the Company to comply with any of its other agreements contained in the Notes or this Indenture;

(g) default by the Company or any Significant Subsidiary with respect to any mortgage, agreement or other instrument under which there may be outstanding, or by which there may be secured or evidenced, any indebtedness for money borrowed in excess of \$15,000,000 (or its foreign currency equivalent) in the aggregate of the Company and/or any such Significant Subsidiary, whether such indebtedness now exists or shall hereafter be created (i) resulting in such indebtedness becoming or being declared due and payable prior to its stated maturity or (ii) constituting a failure to pay the principal of any such indebtedness when due and payable at its stated maturity, upon required repurchase, upon declaration of acceleration or otherwise and in the cases of clauses (i) and (ii), such acceleration shall not have been rescinded or annulled or such failure to pay or default shall not have been cured or waived, or such indebtedness shall not have been paid or discharged, as the case may be, within 30 days after written notice to the Company by the Trustee or to the Company and the Trustee by Holders of at least 25% in aggregate principal amount of Notes then outstanding in accordance with this Indenture;

(h) the Company or any Significant Subsidiary shall commence a voluntary case or other proceeding seeking liquidation, reorganization or other relief with respect to the Company or any such Significant Subsidiary or its debts under any bankruptcy, insolvency or other similar law now or hereafter in effect or seeking the appointment of a trustee, receiver, liquidator, custodian or other similar official of the Company or any such Significant Subsidiary or any substantial part of its property, or shall consent to any such relief or to the appointment of or taking possession by any such official in an involuntary case or other proceeding commenced against it, or shall make a general assignment for the benefit of creditors, or shall fail generally to pay its debts as they become due; or

(i) an involuntary case or other proceeding shall be commenced against the Company or any Significant Subsidiary seeking liquidation, reorganization or other relief with respect to the Company or such Significant Subsidiary or its debts under any bankruptcy, insolvency or other similar law now or hereafter in effect or seeking the appointment of a trustee, receiver, liquidator, custodian or other similar official of the Company or such Significant Subsidiary or any substantial part of its property, and such involuntary case or other proceeding shall remain undismissed and unstayed for a period of 30 consecutive days.

Section 6.02. *Acceleration; Rescission and Annulment.* If one or more Events of Default shall have occurred and be continuing (whatever the reason for such Event of Default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body), then, and in each and every such case (other than an Event of Default specified in Section 6.01(h) or Section 6.01(i) with respect to the Company), unless the principal of all of the Notes shall have already become due and payable, either the Trustee or the Holders of at least 25% in aggregate principal amount of the Notes then outstanding determined in accordance with Section 8.04, by notice in writing to the Company (and to the Trustee if given by Holders), may declare 100% of the principal of, and accrued and unpaid interest on, all the Notes to be due and payable immediately, and upon any such declaration the same shall become and shall automatically be immediately due and payable, anything contained in this Indenture or in the Notes to the contrary notwithstanding. If an Event of Default specified in Section 6.01(h) or Section 6.01(i) with respect to the Company occurs and is continuing, 100% of the principal of, and accrued and unpaid interest, if any, on, all Notes shall become and shall automatically be immediately due and payable.

The immediately preceding paragraph, however, is subject to the conditions that if, at any time after the principal of the Notes shall have been so declared due and payable, and before any judgment or decree for the payment of the monies due shall have been obtained or entered as hereinafter provided, the Company shall pay or shall deposit with the Trustee a sum sufficient to pay installments of accrued and unpaid interest upon all Notes and the principal of any and all Notes that shall have become due otherwise than by acceleration (with interest on overdue installments of accrued and unpaid interest and on such principal at the rate borne by the Notes at such time) and amounts due to the Trustee pursuant to Section 7.06, and if (1) rescission would not conflict with any judgment or decree of a court of competent jurisdiction and (2) any and all existing Events of Default under this Indenture, other than the nonpayment of the principal of and accrued and unpaid interest, if any, on Notes that shall have become due solely by such acceleration, shall have been cured or waived pursuant to Section 6.09, then and in every such case (except as provided in the immediately succeeding sentence) the Holders of a majority in aggregate principal amount of the Notes then outstanding, by written notice to the Company and to the Trustee, may waive all Defaults or Events of Default with respect to the Notes and rescind and annul such declaration and its consequences and such Default shall cease to exist, and any Event of Default arising therefrom shall be deemed to have been cured for every purpose of this Indenture; but no such waiver or rescission and annulment shall extend to or shall affect any subsequent Default or Event of Default, or shall impair any right consequent thereon. Notwithstanding anything to the contrary herein, no such waiver or rescission and annulment shall extend to or shall affect any Default or Event of Default resulting from (i) the nonpayment of the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, or accrued and unpaid interest on, any Notes, (ii) a failure to repurchase any Notes when required or (iii) a failure to pay or deliver, as the case may be, the consideration due upon conversion of the Notes.

Section 6.03. *Additional Interest.* Notwithstanding anything in this Indenture or in the Notes to the contrary, to the extent the Company elects, the sole remedy for an Event of Default relating to the Company's failure to comply with its obligations as set forth in Section 4.06(b) shall, for the first 360 days after the occurrence of such an Event of Default, consist exclusively of the right to receive Additional Interest on the Notes at a rate equal to 0.25% per annum of the principal amount of the Notes outstanding for each day on which such Event of Default is continuing during the first 180 days after the occurrence of such an Event of Default and 0.50%

per annum of the principal amount of the Notes outstanding for each day on which such Event of Default is continuing during the period from the 181st day until the 360th day after the occurrence of such Event of Default. Additional Interest payable pursuant to this Section 6.03 shall be in addition to, not in lieu of, any Additional Interest payable pursuant to Section 4.06(d) or Section 4.06(e), subject to the second immediately succeeding paragraph. If the Company so elects, such Additional Interest shall be payable in the same manner and on the same dates as the stated interest payable on the Notes. On the 361st day after such Event of Default (if the Event of Default relating to the Company's failure to comply with its obligations as set forth in Section 4.06(b) is not cured or waived in accordance with this Indenture prior to such 361st day), the Notes shall be immediately subject to acceleration as provided in Section 6.02. The provisions of this Section 6.03 will not affect the rights of Holders of Notes in the event of the occurrence of any Event of Default other than the Company's failure to comply with its obligations as set forth in Section 4.06(b). In the event the Company does not elect to pay Additional Interest following an Event of Default in accordance with this Section 6.03 or the Company elected to make such payment but does not pay the Additional Interest when due, the Notes shall be immediately subject to acceleration as provided in Section 6.02.

In order to elect to pay Additional Interest as the sole remedy during the first 360 days after the occurrence of any Event of Default relating to the Company's failure to comply with its obligations as set forth in Section 4.06(b), the Company must notify all Holders of the Notes, the Trustee and the Paying Agent of such election prior to the beginning of such 360-day period. Upon the failure to timely give such notice, the Notes shall be immediately subject to acceleration as provided in Section 6.02. The Trustee shall have no duty to determine or verify the Company's determination of whether and to what extent Additional Interest is payable.

Notwithstanding the foregoing, in no event shall Additional Interest payable at the Company's election pursuant to this Section 6.03, together with any Additional Interest that may accrue as a result of the Company's failure to timely file any document or report that the Company is required to file with the Commission pursuant to Section 13 or 15(d) of the Exchange Act, as applicable, pursuant to Section 4.06(d), accrue at a rate in excess of 0.50% per annum pursuant to this Indenture, regardless of the number of events or circumstances giving rise to the requirement to pay such Additional Interest.

Section 6.04. *Payments of Notes on Default; Suit Therefor.* If an Event of Default described in clause (a) or (b) of Section 6.01 shall have occurred and be continuing, the Company shall, upon demand of the Trustee, pay to the Trustee, for the benefit of the Holders of the Notes, the whole amount then due and payable on the Notes for principal and interest, if any, with interest on any overdue principal and interest, if any, at the rate borne by the Notes at such time, and, in addition thereto, such further amount as shall be sufficient to cover any amounts due to the Trustee under Section 7.06. If the Company shall fail to pay such amounts forthwith upon such demand, the Trustee, in its own name and as trustee of an express trust, may institute a judicial proceeding for the collection of the sums so due and unpaid, may prosecute such proceeding to judgment or final decree and may enforce the same against the Company or any other obligor upon the Notes and collect the moneys adjudged or decreed to be payable in the manner provided by law out of the property of the Company or any other obligor upon the Notes, wherever situated.

In the event there shall be pending proceedings for the bankruptcy or for the reorganization of the Company or any other obligor on the Notes under Title 11 of the United States Code, or any other applicable law, or in case a receiver, assignee or trustee in bankruptcy or reorganization, liquidator, sequestrator or similar official shall have been appointed for or taken possession of the Company or such other obligor, the property of the Company or such other obligor, or in the event of any other judicial proceedings relative to the Company or such other obligor upon the Notes, or to the creditors or property of the Company or such other obligor, the Trustee, irrespective of whether the principal of the Notes shall then be due and payable as therein expressed or by declaration or otherwise and irrespective of whether the Trustee shall have made any demand pursuant to the provisions of this Section 6.04, shall be entitled and empowered, by intervention in such proceedings or otherwise, to file and prove a claim or claims for the whole amount of principal and accrued and unpaid interest, if any, in respect of the Notes, and, in case of any judicial proceedings, to file such proofs of claim and other papers or documents and to take such other actions as it may deem necessary or advisable in order to have the claims of the Trustee (including any claim for the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel) and of the Holders allowed in such judicial proceedings relative to the Company or any other obligor on the Notes, its or their creditors, or its or their property, and to collect and receive any monies or other property payable or deliverable on any such claims, and to distribute the same after the deduction of any amounts due to the Trustee under Section 7.06; and any receiver, assignee or trustee in bankruptcy or reorganization, liquidator, custodian or similar official is hereby authorized by each of the Holders to make such payments to the Trustee, as administrative expenses, and, in the event that the Trustee shall consent to the making of such payments directly to the Holders, to pay to the Trustee any amount due it for reasonable compensation, expenses, advances and disbursements, including agents and counsel fees, and including any other amounts due to the Trustee under Section 7.06, incurred by it up to the date of such distribution. To the extent that such payment of reasonable compensation, expenses, advances and disbursements out of the estate in any such proceedings shall be denied for any reason, payment of the same shall be secured by a lien on, and shall be paid out of, any and all distributions, dividends, monies, securities and other property that the Holders of the Notes may be entitled to receive in such proceedings, whether in liquidation or under any plan of reorganization or arrangement or otherwise.

Nothing herein contained shall be deemed to authorize the Trustee to authorize or consent to or accept or adopt on behalf of any Holder any plan of reorganization, arrangement, adjustment or composition affecting such Holder or the rights of any Holder thereof, or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding.

All rights of action and of asserting claims under this Indenture, or under any of the Notes, may be enforced by the Trustee without the possession of any of the Notes, or the production thereof at any trial or other proceeding relative thereto, and any such suit or proceeding instituted by the Trustee shall be brought in its own name as trustee of an express trust, and any recovery of judgment shall, after provision for the payment of the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel, be for the ratable benefit of the Holders of the Notes.

In any proceedings brought by the Trustee (and in any proceedings involving the interpretation of any provision of this Indenture to which the Trustee shall be a party) the Trustee shall be held to represent all the Holders of the Notes, and it shall not be necessary to make any Holders of the Notes parties to any such proceedings.

In case the Trustee shall have proceeded to enforce any right under this Indenture and such proceedings shall have been discontinued or abandoned because of any waiver pursuant to Section 6.09 or any rescission and annulment pursuant to Section 6.02 or for any other reason or shall have been determined adversely to the Trustee, then and in every such case the Company, the Holders and the Trustee shall, subject to any determination in such proceeding, be restored respectively to their several positions and rights hereunder, and all rights, remedies and powers of the Company, the Holders and the Trustee shall continue as though no such proceeding had been instituted.

Section 6.05. *Application of Monies Collected by Trustee.* Any monies or property collected by the Trustee pursuant to this Article 6 with respect to the Notes shall be applied in the following order, at the date or dates fixed by the Trustee for the distribution of such monies or property, upon presentation of the several Notes, and stamping thereon the payment, if only partially paid, and upon surrender thereof, if fully paid:

**First**, to the payment of all amounts due the Trustee under Section 7.06;

**Second**, in case the principal of the outstanding Notes shall not have become due and be unpaid, to the payment of interest on, and any cash due upon conversion of, the Notes in default in the order of the date due of the payments of such interest and cash due upon conversion, as the case may be, with interest (to the extent that such interest has been collected by the Trustee) upon such overdue payments at the rate borne by the Notes at such time, such payments to be made ratably to the Persons entitled thereto;

**Third**, in case the principal of the outstanding Notes shall have become due, by declaration or otherwise, and be unpaid to the payment of the whole amount (including, if applicable, the payment of the Redemption Price and the Fundamental Change Repurchase Price and any cash due upon conversion) then owing and unpaid upon the Notes for principal and interest, if any, with interest on the overdue principal and, to the extent that such interest has been collected by the Trustee, upon overdue installments of interest at the rate borne by the Notes at such time, and in case such monies shall be insufficient to pay in full the whole amounts so due and unpaid upon the Notes, then to the payment of such principal (including, if applicable, the Redemption Price and the Fundamental Change Repurchase Price and any cash due upon conversion) and interest without preference or priority of principal over interest, or of interest over principal or of any installment of interest over any other installment of interest, or of any Note over any other Note, ratably to the aggregate of such principal (including, if applicable, the Redemption Price and the Fundamental Change Repurchase Price and any cash due upon conversion) and accrued and unpaid interest; and

**Fourth**, to the payment of the remainder, if any, to the Company.

Section 6.06. *Proceedings by Holders.* Except to enforce the right to receive payment of principal (including, if applicable, the Redemption Price and the Fundamental Change Repurchase Price) or interest when due, or the right to receive payment or delivery of the consideration due upon conversion, no Holder of any Note shall have any right by virtue of or by availing of any provision of this Indenture to institute any suit, action or proceeding in equity or at law upon or under or with respect to this Indenture or the Notes, or for the appointment of a receiver, trustee, liquidator, custodian or other similar official, or for any other remedy hereunder, unless:

- (a) such Holder previously shall have given to the Trustee written notice of an Event of Default and of the continuance thereof, as herein provided;
- (b) Holders of at least 25% in aggregate principal amount of the Notes then outstanding shall have made written request upon the Trustee to institute such action, suit or proceeding in its own name as Trustee hereunder;
- (c) such Holders shall have offered to the Trustee such security or indemnity satisfactory to it in its reasonable judgment against any loss, liability or expense to be incurred therein or thereby;
- (d) the Trustee for 60 days after its receipt of such notice, request and offer of such security or indemnity, shall have neglected or refused to institute any such action, suit or proceeding; and
- (e) no direction that, in the opinion of the Trustee, is inconsistent with such written request shall have been given to the Trustee by the Holders of a majority of the aggregate principal amount of the Notes then outstanding within such 60-day period pursuant to Section 6.09,

it being understood and intended, and being expressly covenanted by the taker and Holder of every Note with every other taker and Holder and the Trustee that no one or more Holders shall have any right in any manner whatever by virtue of or by availing of any provision of this Indenture to affect, disturb or prejudice the rights of any other Holder, or to obtain or seek to obtain priority over or preference to any other such Holder, or to enforce any right under this Indenture, except in the manner herein provided and for the equal, ratable and common benefit of all Holders (except as otherwise provided herein). For the protection and enforcement of this Section 6.06, each and every Holder and the Trustee shall be entitled to such relief as can be given either at law or in equity.

Notwithstanding any other provision of this Indenture and any provision of any Note, each Holder shall have the right to receive payment or delivery, as the case may be, of (x) the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, (y) accrued and unpaid interest, if any, on, and (z) the consideration due upon conversion of, such Note, on or after the respective due dates expressed or provided for in such Note or in this Indenture, or to institute suit for the enforcement of any such payment or delivery, as the case may be, and such right to receive such payment or delivery, as the case may be, on or after such respective dates shall not be impaired or affected without the consent of such Holder.

Section 6.07. *Proceedings by Trustee.* In case of an Event of Default, the Trustee may in its discretion proceed to protect and enforce the rights vested in it by this Indenture by such appropriate judicial proceedings as are necessary to protect and enforce any of such rights, either by suit in equity or by action at law or by proceeding in bankruptcy or otherwise, whether for the specific enforcement of any covenant or agreement contained in this Indenture or in aid of the exercise of any power granted in this Indenture, or to enforce any other legal or equitable right vested in the Trustee by this Indenture or by law.

Section 6.08. *Remedies Cumulative and Continuing.* Except as provided in the last paragraph of Section 2.06, all powers and remedies given by this Article 6 to the Trustee or to the Holders shall, to the extent permitted by law, be deemed cumulative and not exclusive of any other powers and remedies available to the Trustee or the Holders of the Notes, by judicial proceedings or otherwise, to enforce the performance or observance of the covenants and agreements contained in this Indenture, and no delay or omission of the Trustee or of any Holder of any of the Notes to exercise any right or power accruing upon any Default or Event of Default shall impair any such right or power, or shall be construed to be a waiver of any such Default or Event of Default or any acquiescence therein; and, subject to the provisions of Section 6.06, every power and remedy given by this Article 6 or by law to the Trustee or to the Holders may be exercised from time to time, and as often as shall be deemed expedient, by the Trustee or by the Holders.

Section 6.09. *Direction of Proceedings and Waiver of Defaults by Majority of Holders.* Subject to the Trustee's rights to receive indemnity or security satisfactory to it in its reasonable judgment, the Holders of a majority of the aggregate principal amount of the Notes at the time outstanding determined in accordance with Section 8.04 shall have the right to direct the time, method and place of conducting any proceeding for any remedy available to the Trustee or exercising any trust or power conferred on the Trustee with respect to the Notes; *provided, however,* that (a) such direction shall not be in conflict with any rule of law or with this Indenture, and (b) the Trustee may take any other action deemed proper by the Trustee that is not inconsistent with such direction. The Trustee may refuse to follow any direction that conflicts with law or this Indenture or that it determines is unduly prejudicial to the rights of any other Holder, or that would involve the Trustee in personal liability *provided, however,* that the Trustee may take any action it deems proper that is not inconsistent with any such direction received from Holders of Notes. The Holders of a majority in aggregate principal amount of the Notes at the time outstanding determined in accordance with Section 8.04 may on behalf of the Holders of all of the Notes waive any past Default or Event of Default hereunder and its consequences except (i) any continuing defaults relating to the nonpayment of accrued and unpaid interest, if any, on, or the principal (including any Redemption Price and any Fundamental Change Repurchase Price) of, the Notes when due that has not been cured pursuant to the provisions of Section 6.01, (ii) a failure by the Company to pay or deliver, as the case may be, the consideration due upon conversion of the Notes or (iii) a default in respect of a covenant or provision hereof which under Article 10 cannot be modified or amended without the consent of each Holder of an outstanding Note affected. Upon any such waiver the Company, the Trustee and the Holders of the Notes shall be restored to their former positions and rights hereunder; but no such waiver shall extend to any subsequent or other Default or Event of Default or impair any right consequent thereon. Whenever any Default or Event of Default hereunder shall have been waived as permitted by this Section 6.09, said Default or Event of Default shall for all purposes of the Notes and this Indenture be deemed to have been cured and to be not continuing; but no such waiver shall extend to any subsequent or other Default or Event of Default or impair any right consequent thereon.

Section 6.10. *Notice of Defaults.* The Trustee shall, within 90 days after a Responsible Officer has actual knowledge of the occurrence and continuance of a Default, deliver to all Holders notice of all Defaults known to a Responsible Officer, unless such Defaults shall have been cured or waived before the giving of such notice; *provided* that, except in the case of a Default in the payment of the principal of (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable), or accrued and unpaid interest on, any of the Notes or a Default in the payment or delivery of the consideration due upon conversion, the Trustee shall be protected in withholding such notice if and so long as the Trustee in good faith determines that the withholding of such notice is in the interests of the Holders.

Section 6.11. *Undertaking to Pay Costs.* All parties to this Indenture agree, and each Holder of any Note by its acceptance thereof shall be deemed to have agreed, that any court may, in its discretion, require, in any suit for the enforcement of any right or remedy under this Indenture, or in any suit against the Trustee for any action taken or omitted by it as Trustee, the filing by any party litigant in such suit of an undertaking to pay the costs of such suit and that such court may in its discretion assess reasonable costs, including reasonable attorneys' fees and expenses, against any party litigant in such suit, having due regard to the merits and good faith of the claims or defenses made by such party litigant; *provided* that the provisions of this Section 6.11 (to the extent permitted by law) shall not apply to any suit instituted by the Trustee, to any suit instituted by any Holder, or group of Holders, holding in the aggregate more than 10% in principal amount of the Notes at the time outstanding determined in accordance with Section 8.04, or to any suit instituted by any Holder for the enforcement of the payment of the principal of or accrued and unpaid interest, if any, on any Note (including, but not limited to, the Redemption Price and the Fundamental Change Repurchase Price, if applicable) on or after the due date expressed or provided for in such Note or to any suit for the enforcement of the right to convert any Note, or receive the consideration due upon conversion, in accordance with the provisions of Article 14.

## ARTICLE 7 CONCERNING THE TRUSTEE

Section 7.01. *Duties and Responsibilities of Trustee.* The Trustee, prior to the occurrence of an Event of Default and after the curing or waiver of all Events of Default that may have occurred, undertakes to perform such duties and only such duties as are specifically set forth in this Indenture. In the event an Event of Default has occurred and is continuing, the Trustee shall exercise such of the rights and powers vested in it by this Indenture, and use the same degree of care and skill in its exercise, as a prudent person would exercise or use under the circumstances in the conduct of such person's own affairs; *provided* that if an Event of Default occurs and is continuing, the Trustee will be under no obligation to exercise any of the rights or powers under this Indenture at the request or direction of any of the Holders unless such Holders have offered (and, if requested, provided) to the Trustee indemnity or security satisfactory to the Trustee in its reasonable judgment against any loss, liability or expense that might be incurred by it in compliance with such request or direction.

No provision of this Indenture shall be construed to relieve the Trustee from liability for its own grossly negligent action, its own grossly negligent failure to act or its own willful misconduct, except that:

(a) prior to the occurrence of an Event of Default and after the curing or waiving of all Events of Default that may have occurred:

(i) the duties and obligations of the Trustee shall be determined solely by the express provisions of this Indenture, and the Trustee shall not be liable except for the performance of such duties and obligations as are specifically set forth in this Indenture and no implied covenants or obligations shall be read into this Indenture against the Trustee; and

(ii) in the absence of bad faith or willful misconduct on the part of the Trustee, the Trustee may conclusively rely, as to the truth of the statements and the correctness of the opinions expressed therein, upon any certificates or opinions furnished to the Trustee and conforming to the requirements of this Indenture; but, in the case of any such certificates or opinions that by any provisions hereof are specifically required to be furnished to the Trustee, the Trustee shall be under a duty to examine the same to determine whether or not they conform to the requirements of this Indenture (but need not confirm or investigate the accuracy of any mathematical calculations or other facts stated therein);

(b) the Trustee shall not be liable for any error of judgment made in good faith by a Responsible Officer or Officers of the Trustee, unless it shall be proved that the Trustee was grossly negligent in ascertaining the pertinent facts;

(c) the Trustee shall not be liable with respect to any action taken or omitted to be taken by it in good faith in accordance with the direction of the Holders of not less than a majority of the aggregate principal amount of the Notes at the time outstanding determined as provided in Section 8.04 relating to the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred upon the Trustee, under this Indenture;

(d) whether or not therein provided, every provision of this Indenture relating to the conduct or affecting the liability of, or affording protection to, the Trustee shall be subject to the provisions of this Section;

(e) the Trustee shall not be liable in respect of any payment (as to the correctness of amount, entitlement to receive or any other matters relating to payment) or notice effected by the Company or any Paying Agent or any records maintained by any co-Note Registrar with respect to the Notes;

(f) if any party fails to deliver a notice relating to an event the fact of which, pursuant to this Indenture, requires notice to be sent to the Trustee, the Trustee may conclusively rely on its failure to receive such notice as reason to act as if no such event occurred, unless a Responsible Officer of the Trustee had actual knowledge of such event;

(g) in the absence of written investment direction from the Company, all cash received by the Trustee shall be placed in a non-interest bearing trust account, and in no event shall the Trustee be liable for the selection of investments or for investment losses incurred thereon or for losses incurred as a result of the liquidation of any such investment prior to its maturity date or the failure of the party directing such investments prior to its maturity date or the failure of the party directing such investment to provide timely written investment direction, and the Trustee shall have no obligation to invest or reinvest any amounts held hereunder in the absence of such written investment direction from the Company; and

(h) in the event that the Trustee is also acting as Custodian, Note Registrar, Paying Agent, Conversion Agent, Bid Solicitation Agent or transfer agent hereunder, the rights privileges, immunities, benefits and protections afforded to the Trustee pursuant to this Article 7 shall also be afforded to such Custodian, Note Registrar, Paying Agent, Conversion Agent, Bid Solicitation Agent or transfer agent.

None of the provisions contained in this Indenture shall require the Trustee to expend or risk its own funds or otherwise incur personal financial liability in the performance of any of its duties or in the exercise of any of its rights or powers. The Trustee shall not be required to give any bond or surety in respect of the performance of its powers or duties under this Indenture.

Section 7.02. *Reliance on Documents, Opinions, Etc.* Except as otherwise provided in Section 7.01:

(a) the Trustee may conclusively rely and shall be fully protected in acting upon any resolution, certificate, statement, instrument, opinion, report, notice, request, consent, order, bond, note, coupon or other paper or document believed by it in good faith to be genuine and to have been signed or presented by the proper party or parties;

(b) any request, direction, order or demand of the Company mentioned herein shall be sufficiently evidenced by an Officer's Certificate (unless other evidence in respect thereof be herein specifically prescribed); and any Board Resolution may be evidenced to the Trustee by a copy thereof certified by the Secretary or an Assistant Secretary of the Company;

(c) the Trustee may consult with counsel of its selection and require an Opinion of Counsel and any advice of such counsel or Opinion of Counsel shall be full and complete authorization and protection in respect of any action taken or omitted by it hereunder in good faith and in accordance with such advice or Opinion of Counsel;

(d) the Trustee shall not be bound to make any investigation into the facts or matters stated in any resolution, certificate, statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture or other paper or document, but the Trustee, in its discretion, may make such further inquiry or investigation into such facts or matters as it may see fit, and, if the Trustee shall determine to make such further inquiry or investigation, it shall be entitled to examine the books, records and premises of the Company, personally or by agent or attorney at the expense of the Company and shall incur no liability of any kind by reason of such inquiry or investigation;

(e) the Trustee may execute any of the trusts or powers hereunder or perform any duties hereunder either directly or by or through agents, custodians, nominees or attorneys and the Trustee shall not be responsible for any misconduct or negligence on the part of any agent, custodian, nominee or attorney appointed by it with due care hereunder;

(f) the permissive rights of the Trustee enumerated herein shall not be construed as duties;

(g) in no event shall the Trustee be liable for any special, indirect, punitive or consequential loss or damage of any kind whatsoever (including but not limited to lost profits), even if the Trustee has been advised of the likelihood of such loss or damage and regardless of the form of action;

(h) the Trustee shall not be charged with knowledge of any Default or Event of Default with respect to the Notes, unless either (1) a Responsible Officer shall have actual knowledge of such Default or Event of Default or (2) written notice of such Default or Event of Default shall have been given to the Trustee by the Company or by any Holder of the Notes;

(i) the Trustee shall not be obligated to take possession of any Common Stock, whether upon conversion or in connection with any discharge of this Indenture pursuant to Article 3 hereof, but shall satisfy its obligation as Conversion Agent by working through the stock transfer agent of the Company from time to time as directed by the Company; and

(j) the Trustee may request that the Company deliver a certificate setting forth the names of the individuals and/or titles of officers authorized at such time to take specified actions pursuant to this Indenture;

(k) the Trustee shall be under no obligation to exercise any of the rights or powers vested in it by this Indenture at the request or direction of any of the Holders unless such Holders have offered to the Trustee indemnity or security satisfactory to the Trustee in its reasonable judgment against the losses, liabilities and expenses that might be incurred by it in compliance with such request or direction; and

(l) the Trustee shall not be liable for any action taken, suffered, or omitted to be taken by it in good faith and reasonably believed by it to be authorized or within the discretion or rights or powers conferred upon it by this Indenture.

Section 7.03. *No Responsibility for Recitals, Etc.* The recitals contained herein and in the Notes (except in the Trustee's certificate of authentication) shall be taken as the statements of the Company, and the Trustee assumes no responsibility for the correctness of the same. The Trustee makes no representations as to the validity or sufficiency of this Indenture or of the Notes. The Trustee shall not be accountable for the use or application by the Company of any

Notes or the proceeds of any Notes authenticated and delivered by the Trustee in conformity with the provisions of this Indenture. Neither the Trustee nor any of its agents will be accountable for the use or application by the Company of the Notes or the proceeds thereof, or for any funds received and disbursed in accordance with this Indenture. The Trustee shall have no responsibility or liability with respect to any information, statement or recital in the Offering Memorandum or other disclosure material prepared or distributed with respect to the issuance of the Notes.

Section 7.04. *Trustee, Paying Agents, Conversion Agents, Bid Solicitation Agent or Note Registrar May Own Notes.* The Trustee, any Paying Agent, any Conversion Agent, Bid Solicitation Agent (if other than the Company) or Note Registrar, in its individual or any other capacity, may become the owner or pledgee of Notes with the same rights it would have if it were not the Trustee, Paying Agent, Conversion Agent, Bid Solicitation Agent or Note Registrar.

Section 7.05. *Monies and Shares of Common Stock to Be Held in Trust.* All monies and shares of Common Stock received by the Trustee shall, until used or applied as herein provided, be held in trust for the purposes for which they were received. Money and shares of Common Stock held by the Trustee in trust hereunder need not be segregated from other funds except to the extent required by law. The Trustee shall be under no liability for interest on any money or shares of Common Stock received by it hereunder except as may be agreed from time to time by the Company and the Trustee.

Section 7.06. *Compensation and Expenses of Trustee.* The Company covenants and agrees to pay to the Trustee, in any capacity under this Indenture, from time to time, and the Trustee shall be entitled to, such compensation for all services rendered by it hereunder in any capacity (which shall not be limited by any provision of law in regard to the compensation of a trustee of an express trust) as mutually agreed to in writing between the Trustee and the Company, and the Company will pay or reimburse the Trustee upon its request for all reasonable expenses, disbursements and advances reasonably incurred or made by the Trustee in accordance with any of the provisions of this Indenture in any capacity thereunder (including the reasonable compensation and the expenses and disbursements of its agents and counsel and of all Persons not regularly in its employ) except any such expense, disbursement or advance as shall have been caused by its gross negligence or willful misconduct. The Company also covenants to indemnify the Trustee or any predecessor Trustee in any capacity under this Indenture and any other document or transaction entered into in connection herewith and its officers, directors, employees and agents and any authenticating agent for, and to hold them harmless against, any loss, claim (whether asserted by the Company, any Holder or any other Person), damage, liability or expense incurred without gross negligence or willful misconduct on the part of the Trustee, its officers, directors, agents or employees, or such agent or authenticating agent, as the case may be, as determined by a final, non-appealable decision of a court of competent jurisdiction, and arising out of or in connection with the acceptance or administration of this Indenture or in any other capacity hereunder, including the costs and expenses of defending themselves against any claim (whether asserted by the Company, any Holder or any other Person) of liability in the premises. The obligations of the Company under this Section 7.06 to compensate or indemnify the Trustee and to pay or reimburse the Trustee for expenses, disbursements and advances shall be secured by a senior claim to which the Notes are hereby made subordinate on all money or property held or collected by the Trustee, except, subject to the effect of Section 6.05, funds held

in trust herewith for the benefit of the Holders of particular Notes. The Trustee's right to receive payment of any amounts due under this Section 7.06 shall not be subordinate to any other liability or indebtedness of the Company. The obligation of the Company under this Section 7.06 shall survive the satisfaction and discharge of this Indenture and the earlier resignation or removal of the Trustee. The Company need not pay for any settlement made without its consent, which consent shall not be unreasonably withheld. The indemnification provided in this Section 7.06 shall extend to the officers, directors, agents and employees of the Trustee.

Without prejudice to any other rights available to the Trustee under applicable law, when the Trustee and its agents and any authenticating agent incur expenses or render services after an Event of Default specified in Section 6.01(h) or Section 6.01(i) occurs, the expenses and the compensation for the services are intended to constitute expenses of administration under any bankruptcy, insolvency or similar laws.

Section 7.07. *Officer's Certificate as Evidence.* Except as otherwise provided in Section 7.01, whenever in the administration of the provisions of this Indenture the Trustee shall deem it necessary or desirable that a matter be proved or established prior to taking or omitting any action hereunder, such matter (unless other evidence in respect thereof be herein specifically prescribed) may, in the absence of gross negligence or willful misconduct on the part of the Trustee, be deemed to be conclusively proved and established by an Officer's Certificate delivered to the Trustee, and such Officer's Certificate, in the absence of gross negligence or willful misconduct on the part of the Trustee, shall be full warrant to the Trustee for any action taken or omitted by it under the provisions of this Indenture in reliance thereon.

Section 7.08. *Eligibility of Trustee.* There shall at all times be a Trustee hereunder which shall be a Person that is eligible pursuant to the Trust Indenture Act (as if the Trust Indenture Act were applicable hereto) to act as such and has a combined capital and surplus of at least \$50,000,000. If such Person publishes reports of condition at least annually, pursuant to law or to the requirements of any supervising or examining authority, then for the purposes of this Section, the combined capital and surplus of such Person shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition so published. If at any time the Trustee shall cease to be eligible in accordance with the provisions of this Section, it shall resign immediately in the manner and with the effect hereinafter specified in this Article.

Section 7.09. *Resignation or Removal of Trustee.* (a) The Trustee may at any time resign by giving written notice of such resignation to the Company and by delivering notice thereof to the Holders. Upon receiving such notice of resignation, the Company shall promptly appoint a successor trustee by written instrument, in duplicate, executed by order of the Board of Directors, one copy of which instrument shall be delivered to the resigning Trustee and one copy to the successor trustee. If no successor trustee shall have been so appointed and have accepted appointment within 60 days after the transmittal of such notice of resignation to the Holders, the resigning Trustee may, upon ten Business Days' notice to the Company and the Holders, petition any court of competent jurisdiction for the appointment of a successor trustee, or any Holder who has been a bona fide holder of a Note or Notes for at least six months (or since the date of this Indenture) may, subject to the provisions of Section 6.11, on behalf of himself or herself and all others similarly situated, petition any such court for the appointment of a successor trustee. Such court may thereupon, after such notice, if any, as it may deem proper and prescribe, appoint a successor trustee.

(b) In case at any time any of the following shall occur:

(i) the Trustee shall cease to be eligible in accordance with the provisions of Section 7.08 and shall fail to resign after written request therefor by the Company or by any such Holder, or

(ii) the Trustee shall become incapable of acting, or shall be adjudged bankrupt or insolvent, or a receiver of the Trustee or of its property shall be appointed, or any public officer shall take charge or control of the Trustee or of its property or affairs for the purpose of rehabilitation, conservation or liquidation,

then, in either case, the Company may by a Board Resolution remove the Trustee and appoint a successor trustee by written instrument, in duplicate, executed by order of the Board of Directors, one copy of which instrument shall be delivered to the Trustee so removed and one copy to the successor trustee, or, subject to the provisions of Section 6.11, any Holder who has been a bona fide holder of a Note or Notes for at least six months (or since the date of this Indenture) may, on behalf of himself or herself and all others similarly situated, petition any court of competent jurisdiction for the removal of the Trustee and the appointment of a successor trustee. Such court may thereupon, after such notice, if any, as it may deem proper and prescribe, remove the Trustee and appoint a successor trustee.

(c) The Holders of a majority in aggregate principal amount of the Notes at the time outstanding, as determined in accordance with Section 8.04, may at any time remove the Trustee by notifying the Trustee and the Company in writing not less than 30 days prior to the effective date of such removal, and nominate a successor trustee that shall be deemed appointed as successor trustee unless within ten days after notice to the Company of such nomination the Company objects thereto, in which case the Trustee so removed or any Holder, upon the terms and conditions and otherwise as in Section 7.09(a) provided, may petition any court of competent jurisdiction for an appointment of a successor trustee.

(d) Any resignation or removal of the Trustee and appointment of a successor trustee pursuant to any of the provisions of this Section 7.09 shall become effective upon acceptance of appointment by the successor trustee as provided in Section 7.10.

Section 7.10. *Acceptance by Successor Trustee.* Any successor trustee appointed as provided in Section 7.09 shall execute, acknowledge and deliver to the Company and to its predecessor trustee an instrument accepting such appointment hereunder, and thereupon the resignation or removal of the predecessor trustee shall become effective and such successor trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, duties and obligations of its predecessor hereunder, with like effect as if originally named as Trustee herein; but, nevertheless, on the written request of the Company or of the successor trustee, the trustee ceasing to act shall, upon payment of any amounts then due it pursuant to the provisions of Section 7.06, execute and deliver an instrument transferring to such successor trustee all the rights and powers of the trustee so ceasing to act. Upon request of any

such successor trustee, the Company shall execute any and all instruments in writing for more fully and certainly vesting in and confirming to such successor trustee all such rights and powers. Any trustee ceasing to act shall, nevertheless, retain a senior claim to which the Notes are hereby made subordinate on all money or property held or collected by such trustee as such, except for funds held in trust for the benefit of Holders of particular Notes, to secure any amounts then due it pursuant to the provisions of Section 7.06.

No successor trustee shall accept appointment as provided in this Section 7.10 unless at the time of such acceptance such successor trustee shall be eligible under the provisions of Section 7.08.

Upon acceptance of appointment by a successor trustee as provided in this Section 7.10, each of the Company and the successor trustee, at the written direction and at the expense of the Company shall deliver or cause to be delivered notice of the succession of such trustee hereunder to the Holders. If the Company fails to deliver such notice within ten days after acceptance of appointment by the successor trustee, the successor trustee shall cause such notice to be delivered at the expense of the Company.

Section 7.11. *Succession by Merger; Etc.* Any corporation or other entity into which the Trustee may be merged or converted or with which it may be consolidated, or any corporation or other entity resulting from any merger, conversion or consolidation to which the Trustee shall be a party, or any corporation or other entity succeeding to all or substantially all of the corporate trust business of the Trustee (including the administration of this Indenture), shall be the successor to the Trustee hereunder without the execution or filing of any paper or any further act on the part of any of the parties hereto; *provided* that in the case of any corporation or other entity succeeding to all or substantially all of the corporate trust business of the Trustee such corporation or other entity shall be eligible under the provisions of Section 7.08.

In case at the time such successor to the Trustee shall succeed to the trusts created by this Indenture, any of the Notes shall have been authenticated but not delivered, any such successor to the Trustee may adopt the certificate of authentication of any predecessor trustee or authenticating agent appointed by such predecessor trustee, and deliver such Notes so authenticated; and in case at that time any of the Notes shall not have been authenticated, any successor to the Trustee or an authenticating agent appointed by such successor trustee may authenticate such Notes either in the name of any predecessor trustee hereunder or in the name of the successor trustee; and in all such cases such certificates shall have the full force which it has anywhere in the Notes or in this Indenture provided that the certificate of the Trustee shall have; *provided, however*, that the right to adopt the certificate of authentication of any predecessor trustee or to authenticate Notes in the name of any predecessor trustee shall apply only to its successor or successors by merger, conversion or consolidation.

Section 7.12. *Trustee's Application for Instructions from the Company.* Any application by the Trustee for written instructions from the Company (other than with regard to any action proposed to be taken or omitted to be taken by the Trustee that affects the rights of the Holders of the Notes under this Indenture) may, at the option of the Trustee, set forth in writing any action proposed to be taken or omitted by the Trustee under this Indenture and the date on and/or after which such action shall be taken or such omission shall be effective. The Trustee shall not

be liable to the Company for any action taken by, or omission of, the Trustee in accordance with a proposal included in such application on or after the date specified in such application (which date shall not be less than three Business Days after the date any officer that the Company has received such application (determined in accordance with Section 17.03), unless any such officer shall have consented in writing to any earlier date), unless, prior to taking any such action (or the effective date in the case of any omission), the Trustee shall have received written instructions in accordance with this Indenture in response to such application specifying the action to be taken or omitted.

Section 7.13. *No Obligation to Monitor.* The Trustee shall have no obligation or duty to monitor, determine or inquire as to compliance with any restrictions on transfer imposed under this Indenture or under applicable law with respect to any transfer of any interest in any Note (including any transfers between or among Depository participants or beneficial owners of interests in any Global Notes or for actions taken or omitted to be taken by the Depository) other than to require delivery of such certificates and other documentation or evidence as are expressly required by, and to do so if and when expressly required by the terms of, this Indenture, and to examine the same to determine substantial compliance as to form with the express requirements hereof.

## ARTICLE 8 CONCERNING THE HOLDERS

Section 8.01. *Action by Holders.* Whenever in this Indenture it is provided that the Holders of a specified percentage of the aggregate principal amount of the Notes may take any action (including the making of any demand or request, the giving of any notice, consent or waiver or the taking of any other action), the fact that at the time of taking any such action, the Holders of such specified percentage have joined therein may be evidenced (a) by any instrument or any number of instruments of similar tenor executed by Holders in person or by agent or proxy appointed in writing, or (b) by the record of the Holders voting in favor thereof at any meeting of Holders duly called and held in accordance with the provisions of Article 9, or (c) by a combination of such instrument or instruments and any such record of such a meeting of Holders. Whenever the Company or the Trustee solicits the taking of any action by the Holders of the Notes, the Company or the Trustee may, but shall not be required to, fix in advance of such solicitation, a date as the record date for determining Holders entitled to take such action. The record date if one is selected shall be not more than fifteen days prior to the date of commencement of solicitation of such action.

Section 8.02. *Proof of Execution by Holders.* Subject to the provisions of Section 7.01, Section 7.02 and Section 9.05, proof of the execution of any instrument by a Holder or its agent or proxy shall be sufficient if made in accordance with such reasonable rules and regulations as may be prescribed by the Trustee or in such manner as shall be satisfactory to the Trustee. The holding of Notes shall be proved by the Note Register or by a certificate of the Note Registrar. The record of any Holders' meeting shall be proved in the manner provided in Section 9.06.

Section 8.03. *Who Are Deemed Absolute Owners.* The Company, the Trustee, any authenticating agent, any Paying Agent, any Conversion Agent and any Note Registrar may deem the Person in whose name a Note shall be registered upon the Note Register to be, and may treat it as, the absolute owner of such Note (whether or not such Note shall be overdue and notwithstanding any notation of ownership or other writing thereon made by any Person other than the Company or any Note Registrar) for the purpose of receiving payment of or on account of the principal (including any Redemption Price and any Fundamental Change Repurchase Price) of and (subject to Section 2.03) accrued and unpaid interest on such Note, for conversion of such Note and for all other purposes; and neither the Company nor the Trustee nor any Paying Agent nor any Conversion Agent nor any Note Registrar shall be affected by any notice to the contrary. The sole registered holder of a Global Note shall be the Depository or its nominee. All such payments or deliveries so made to any Holder for the time being, or upon its order, shall be valid, and, to the extent of the sums or shares of Common Stock so paid or delivered, effectual to satisfy and discharge the liability for monies payable or shares deliverable upon any such Note. Notwithstanding anything to the contrary in this Indenture or the Notes (x) following an Event of Default, any holder of a beneficial interest in a Global Note may directly enforce against the Company, without the consent, solicitation, proxy, authorization or any other action of the Depository or any other Person, such holder's right to exchange such beneficial interest for a Physical Note in accordance with the provisions of this Indenture and (y) with respect to any Global Note, nothing in this Indenture shall prevent the Company, the Trustee or any agent of the Company or the Trustee from giving effect to any written certification, proxy or other authorization furnished by any Depository, as a Holder, with respect to such Global Notes or impair, as between such Depository and owners of beneficial interests in such Global Note, the operation of customary practices governing the exercise of the rights of such Depository (or its nominee) as Holder of such Global Note.

Section 8.04. *Company-Owned Notes Disregarded.* In determining whether the Holders of the requisite aggregate principal amount of Notes have concurred in any direction, consent, waiver or other action under this Indenture, Notes that are owned by the Company, by any Subsidiary thereof or by any Affiliate of the Company or any Subsidiary thereof shall be disregarded and deemed not to be outstanding for the purpose of any such determination; *provided* that for the purposes of determining whether the Trustee shall be protected in relying on any such direction, consent, waiver or other action only Notes that a Responsible Officer actually knows are so owned shall be so disregarded. Notes so owned that have been pledged in good faith may be regarded as outstanding for the purposes of this Section 8.04 if the pledgee shall establish to the satisfaction of the Trustee the pledgee's right to so act with respect to such Notes and that the pledgee is not the Company, a Subsidiary thereof or an Affiliate of the Company or a Subsidiary thereof. In the case of a dispute as to such right, any decision or indecision by the Trustee taken upon the advice of counsel shall be full protection to the Trustee. Upon request of the Trustee, the Company shall furnish to the Trustee promptly an Officer's Certificate listing and identifying all Notes, if any, known by the Company to be owned or held by or for the account of any of the above described Persons; and, subject to Section 7.01, the Trustee shall be entitled to accept such Officer's Certificate as conclusive evidence of the facts therein set forth and of the fact that all Notes not listed therein are outstanding for the purpose of any such determination.

Section 8.05. *Revocation of Consents; Future Holders Bound.* At any time prior to (but not after) the evidencing to the Trustee, as provided in Section 8.01, of the taking of any action by the Holders of the percentage of the aggregate principal amount of the Notes specified in this Indenture in connection with such action, any Holder of a Note that is shown by the evidence to be included in the Notes the Holders of which have consented to such action may, by filing written notice with the Trustee at its Corporate Trust Office and upon proof of holding as provided in Section 8.02, revoke such action so far as concerns such Note. Except as aforesaid, any such action taken by the Holder of any Note shall be conclusive and binding upon such Holder and upon all future Holders and owners of such Note and of any Notes issued in exchange or substitution therefor or upon registration of transfer thereof, irrespective of whether any notation in regard thereto is made upon such Note or any Note issued in exchange or substitution therefor or upon registration of transfer thereof.

## ARTICLE 9 HOLDERS' MEETINGS

Section 9.01. *Purpose of Meetings.* A meeting of Holders may be called at any time and from time to time pursuant to the provisions of this Article 9 for any of the following purposes:

(a) to give any notice to the Company or to the Trustee or to give any directions to the Trustee permitted under this Indenture, or to consent to the waiving of any Default or Event of Default hereunder (in each case, as permitted under this Indenture) and its consequences, or to take any other action authorized to be taken by Holders pursuant to any of the provisions of Article 6;

(b) to remove the Trustee and nominate a successor trustee pursuant to the provisions of Article 7;

(c) to consent to the execution of an indenture or indentures supplemental hereto pursuant to the provisions of Section 10.02; or

(d) to take any other action authorized to be taken by or on behalf of the Holders of any specified aggregate principal amount of the Notes under any other provision of this Indenture or under applicable law.

Section 9.02. *Call of Meetings by Trustee.* The Trustee may at any time call a meeting of Holders to take any action specified in Section 9.01, to be held at such time and at such place as the Trustee shall determine. Notice of every meeting of the Holders, setting forth the time and the place of such meeting and in general terms the action proposed to be taken at such meeting and the establishment of any record date pursuant to Section 8.01, shall be delivered to Holders of such Notes. Such notice shall also be delivered to the Company. Such notices shall be delivered not less than 20 nor more than 90 days prior to the date fixed for the meeting.

Any meeting of Holders shall be valid without notice if the Holders of all Notes then outstanding are present in person or by proxy or if notice is waived before or after the meeting by the Holders of all Notes then outstanding, and if the Company and the Trustee are either present by duly authorized representatives or have, before or after the meeting, waived notice.

Section 9.03. *Call of Meetings by Company or Holders.* In case at any time the Company, pursuant to a Board Resolution, or the Holders of at least 10% of the aggregate principal amount of the Notes then outstanding, shall have requested the Trustee to call a meeting of Holders, by written request setting forth in reasonable detail the action proposed to be taken at the meeting, and the Trustee shall not have delivered the notice of such meeting within 20 days after receipt of such request, then the Company or such Holders may determine the time and the place for such meeting and may call such meeting to take any action authorized in Section 9.01, by delivering notice thereof as provided in Section 9.02.

Section 9.04. *Qualifications for Voting.* To be entitled to vote at any meeting of Holders a Person shall (a) be a Holder of one or more Notes on the record date pertaining to such meeting or (b) be a Person appointed by an instrument in writing as proxy by a Holder of one or more Notes on the record date pertaining to such meeting. The only Persons who shall be entitled to be present or to speak at any meeting of Holders shall be the Persons entitled to vote at such meeting and their counsel and any representatives of the Trustee and its counsel and any representatives of the Company and its counsel.

Section 9.05. *Regulations.* Notwithstanding any other provisions of this Indenture, the Trustee may make such reasonable regulations as it may deem advisable for any meeting of Holders, in regard to proof of the holding of Notes and of the appointment of proxies, and in regard to the appointment and duties of inspectors of votes, the submission and examination of proxies, certificates and other evidence of the right to vote, and such other matters concerning the conduct of the meeting as it shall think fit.

The Trustee shall, by an instrument in writing, appoint a temporary chairman of the meeting, unless the meeting shall have been called by the Company or by Holders as provided in Section 9.03, in which case the Company or the Holders calling the meeting, as the case may be, shall in like manner appoint a temporary chairman. A permanent chairman and a permanent secretary of the meeting shall be elected by vote of the Holders of a majority in aggregate principal amount of the Notes represented at the meeting and entitled to vote at the meeting.

Subject to the provisions of Section 8.04, at any meeting of Holders each Holder or proxyholder shall be entitled to one vote for each \$1,000 principal amount of Notes held or represented by him or her; *provided, however*, that no vote shall be cast or counted at any meeting in respect of any Note challenged as not outstanding and ruled by the chairman of the meeting to be not outstanding. The chairman of the meeting shall have no right to vote other than by virtue of Notes held by it or instruments in writing as aforesaid duly designating it as the proxy to vote on behalf of other Holders. Any meeting of Holders duly called pursuant to the provisions of Section 9.02 or Section 9.03 may be adjourned from time to time by the Holders of a majority of the aggregate principal amount of Notes represented at the meeting, whether or not constituting a quorum, and the meeting may be held as so adjourned without further notice.

Section 9.06. *Voting.* The vote upon any resolution submitted to any meeting of Holders shall be by written ballot on which shall be subscribed the signatures of the Holders or of their representatives by proxy and the outstanding aggregate principal amount of the Notes held or represented by them. The permanent chairman of the meeting shall appoint two inspectors of votes who shall count all votes cast at the meeting for or against any resolution and who shall

make and file with the secretary of the meeting their verified written reports in duplicate of all votes cast at the meeting. A record in duplicate of the proceedings of each meeting of Holders shall be prepared by the secretary of the meeting and there shall be attached to said record the original reports of the inspectors of votes on any vote by ballot taken thereat and affidavits by one or more Persons having knowledge of the facts setting forth a copy of the notice of the meeting and showing that said notice was delivered as provided in Section 9.02. The record shall show the aggregate principal amount of the Notes voting in favor of or against any resolution. The record shall be signed and verified by the affidavits of the permanent chairman and secretary of the meeting and one of the duplicates shall be delivered to the Company and the other to the Trustee to be preserved by the Trustee, the latter to have attached thereto the ballots voted at the meeting.

Any record so signed and verified shall be conclusive evidence of the matters therein stated.

Section 9.07. *No Delay of Rights by Meeting.* Nothing contained in this Article 9 shall be deemed or construed to authorize or permit, by reason of any call of a meeting of Holders or any rights expressly or impliedly conferred hereunder to make such call, any hindrance or delay in the exercise of any right or rights conferred upon or reserved to the Trustee or to the Holders under any of the provisions of this Indenture or of the Notes. Nothing contained in this Article 9 shall be deemed or construed to limit any Holder's actions pursuant to the applicable procedures of the Depositary in respect of any Global Notes.

#### ARTICLE 10 SUPPLEMENTAL INDENTURES

Section 10.01. *Supplemental Indentures Without Consent of Holders.* The Company and the Trustee, at the Company's expense, may from time to time and at any time enter into an indenture or indentures supplemental hereto for one or more of the following purposes:

- (a) to cure any ambiguity, omission, defect or inconsistency;
- (b) to provide for the assumption by a Successor Company of the obligations of the Company under this Indenture pursuant to Article 11;
- (c) to add guarantees with respect to the Notes;
- (d) to secure the Notes;
- (e) to add to the covenants or Events of Default of the Company for the benefit of the Holders or surrender any right or power conferred upon the Company;
- (f) to make any other change that does not adversely affect the rights of any Holder;
- (g) to increase the Conversion Rate as provided for in this Indenture;

(h) to irrevocably elect a Settlement Method and/or Specified Dollar Amount (or a minimum Specified Dollar Amount) or eliminate the Company's right to elect a Settlement Method;

(i) in connection with any Share Exchange Event, to provide that the Notes are convertible into Reference Property, subject to the provisions of Section 14.02, and make such related changes to the terms of the Notes to the extent expressly required by Section 14.07;

(j) to appoint a successor Trustee or facilitate the administration of the trusts under this Indenture by more than one trustee, in each case, with respect to the Notes;

(k) to conform the provisions of this Indenture or the Notes to any provision of the "Description of Notes" section of the Offering Memorandum;

(l) to comply with the rules of any applicable securities depository in a manner that does not adversely affect the rights of any Holder; or

(m) to make provisions with respect to conversion rights of the Holders of the Notes as required under this Indenture.

Upon the written request of the Company, the Trustee is hereby authorized to join with the Company in the execution of any such supplemental indenture, to make any further appropriate agreements and stipulations that may be therein contained, but the Trustee shall not be obligated to, but may in its discretion, enter into any supplemental indenture that affects the Trustee's own rights, duties or immunities under this Indenture or otherwise.

Any supplemental indenture authorized by the provisions of this Section 10.01 may be executed by the Company and the Trustee without the consent of the Holders of any of the Notes at the time outstanding, notwithstanding any of the provisions of Section 10.02.

Section 10.02. *Supplemental Indentures with Consent of Holders.* With the consent (evidenced as provided in Article 8) of the Holders of at least a majority of the aggregate principal amount of the Notes then outstanding (determined in accordance with Article 8 and including, without limitation, consents obtained in connection with a repurchase of, or tender or exchange offer for, Notes), the Company and the Trustee, at the Company's expense, may from time to time and at any time enter into an indenture or indentures supplemental hereto for the purpose of adding any provisions to or changing in any manner or eliminating any of the provisions of this Indenture or any supplemental indenture or of modifying in any manner the rights of the Holders; *provided, however*, that, without the consent of each Holder of an outstanding Note affected, no such supplemental indenture shall:

(a) reduce the amount of Notes whose Holders must consent to an amendment;

(b) reduce the rate of or change the stated time for payment of interest on any Note;

(c) reduce the principal of or extend the Maturity Date of any Note;

(d) except as required under this Indenture, make any change that adversely affects the conversion rights of any Notes;

(e) reduce the Redemption Price or the Fundamental Change Repurchase Price of any Note or amend or modify in any manner adverse to the Holders the Company's obligation to make such payments, whether through an amendment or waiver of provisions in the covenants, definitions or otherwise;

(f) make any Note payable in a currency, or at a place of payment, other than that stated in the Note;

(g) change the ranking of the Notes; or

(h) make any change in this Article 10 that requires each Holder's consent or in the waiver provisions in Section 6.02 or Section 6.09.

Upon the written request of the Company, and upon the filing with the Trustee of evidence of the consent of Holders as aforesaid and subject to Section 10.05, the Trustee shall join with the Company in the execution of such supplemental indenture unless such supplemental indenture affects the Trustee's own rights, duties or immunities under this Indenture or otherwise, in which case the Trustee may in its discretion, but shall not be obligated to, enter into such supplemental indenture.

Holders do not need under this Section 10.02 to approve the particular form of any proposed supplemental indenture. It shall be sufficient if such Holders approve the substance thereof. After any such supplemental indenture becomes effective, the Company shall deliver to the Holders (with a copy to the Trustee) a notice briefly describing such supplemental indenture. However, the failure to give such notice to all the Holders, or any defect in the notice, will not impair or affect the validity of the supplemental indenture.

Section 10.03. *Effect of Supplemental Indentures.* Upon the execution of any supplemental indenture pursuant to the provisions of this Article 10, this Indenture and the Notes shall be and be deemed to be modified and amended in accordance therewith and the respective rights, limitation of rights, obligations, duties and immunities under this Indenture of the Trustee, the Company and the Holders shall thereafter be determined, exercised and enforced hereunder subject in all respects to such modifications and amendments and all the terms and conditions of any such supplemental indenture shall be and be deemed to be part of the terms and conditions of this Indenture for any and all purposes.

Section 10.04. *Notation on Notes.* Notes authenticated and delivered after the execution of any supplemental indenture pursuant to the provisions of this Article 10 may, at the Company's expense, bear a notation in form approved by the Trustee as to any matter provided for in such supplemental indenture. If the Company or the Trustee shall so determine, new Notes so modified as to conform, in the opinion of the Trustee and the Company, to any modification of this Indenture contained in any such supplemental indenture may, at the Company's expense, be prepared and executed by the Company, authenticated by the Trustee (or an authenticating agent duly appointed by the Trustee pursuant to Section 17.10) and delivered in exchange for the Notes then outstanding, upon surrender of such Notes then outstanding.

Section 10.05. *Evidence of Compliance of Supplemental Indenture to Be Furnished to Trustee.* In addition to the documents required by Section 17.05, the Trustee shall receive as conclusive evidence an Officer's Certificate and an Opinion of Counsel stating to the effect that any supplemental indenture executed pursuant hereto complies with the requirements of this Article 10 and is permitted or authorized by this Indenture and that the supplemental indenture constitutes the valid and binding obligation of the Company enforceable in accordance with its terms, subject to customary bankruptcy exceptions for opinions of this type.

ARTICLE 11  
CONSOLIDATION, MERGER, SALE, CONVEYANCE AND LEASE

Section 11.01. *Company May Consolidate, Etc. on Certain Terms.* Subject to the provisions of Section 11.02, the Company shall not consolidate with, merge with or into, or sell, convey, transfer or lease all or substantially all of the consolidated properties and assets of the Company and its Subsidiaries, taken as a whole, to, another Person (other than in a Permitted Sale Transaction), if the Company is not the resulting, surviving or transferee Person, unless:

(a) the resulting, surviving or transferee Person (the "**Successor Company**") is a corporation organized and existing under the laws of the United States of America, any State thereof or the District of Columbia, and the Successor Company shall expressly assume, by supplemental indenture all of the obligations of the Company under the Notes and this Indenture; and

(b) immediately after giving effect to such transaction, no Default or Event of Default shall have occurred and be continuing under this Indenture.

For purposes of this Section 11.01, the sale, conveyance, transfer or lease of all or substantially all of the properties and assets of one or more Subsidiaries of the Company to another Person, which properties and assets, if held by the Company instead of such Subsidiaries, would constitute all or substantially all of the properties and assets of the Company on a consolidated basis, shall be deemed to be the sale, conveyance, transfer or lease of all or substantially all of the consolidated properties and assets of the Company and its Subsidiaries, taken as a whole.

Section 11.02. *Successor Corporation to Be Substituted.* In case of any such consolidation, merger, sale, conveyance, transfer or lease in which there is a Successor Company and upon the assumption by the Successor Company, by supplemental indenture, executed and delivered to the Trustee and satisfactory in form to the Trustee, of the due and punctual payment of the principal of and accrued and unpaid interest on all of the Notes, the due and punctual delivery or payment, as the case may be, of any consideration due upon conversion of the Notes and the due and punctual performance of all of the covenants and conditions of this Indenture to be performed by the Company, such Successor Company shall succeed to and, except in the case of a lease of all or substantially all of the consolidated properties and assets of the Company and

its Subsidiaries, taken as a whole, shall be substituted for the Company, with the same effect as if it had originally been named herein as the "Company". Such Successor Company thereupon may cause to be signed, and may issue either in its own name or in the name of the Company any or all of the Notes issuable hereunder which theretofore shall not have been signed by the Company and delivered to the Trustee; and, upon the order of such Successor Company instead of the Company and subject to all the terms, conditions and limitations in this Indenture prescribed, the Trustee shall authenticate and shall deliver, or cause to be authenticated and delivered, any Notes that previously shall have been signed and delivered by the Officers of the Company to the Trustee for authentication, and any Notes that such Successor Company thereafter shall cause to be signed and delivered to the Trustee for that purpose. All the Notes so issued shall in all respects have the same legal rank and benefit under this Indenture as the Notes theretofore or thereafter issued in accordance with the terms of this Indenture as though all of such Notes had been issued at the date of the execution hereof. In the event of any such consolidation, merger, sale, conveyance or transfer (but not in the case of a lease), upon compliance with this Article 11, the Person named as the "Company" in the first paragraph of this Indenture (or any successor that shall thereafter have become such in the manner prescribed in this Article 11) may be dissolved, wound up and liquidated at any time thereafter and, except in the case of a lease, such Person shall be released from its liabilities as obligor and maker of the Notes and from its obligations under this Indenture and the Notes.

In case of any such consolidation, merger, sale, conveyance, transfer or lease, such changes in phraseology and form (but not in substance) may be made in the Notes thereafter to be issued as may be appropriate.

Section 11.03. *Officer's Certificate and Opinion of Counsel to Be Given to Trustee.* No such consolidation, merger, sale, conveyance, transfer or lease (other than any consolidation or merger where the Company is the surviving entity) shall be effective unless the Trustee shall receive an Officer's Certificate and an Opinion of Counsel as conclusive evidence that any such consolidation, merger, sale, conveyance, transfer or lease and any such assumption and, if a supplemental indenture is required in connection with such transaction, such supplemental indenture, complies with the provisions of this Article 11, and in the case of the Opinion of Counsel, that such supplemental indenture is the valid, binding and enforceable obligation of such Successor Company, subject to customary bankruptcy exceptions for opinions of this type.

## ARTICLE 12 IMMUNITY OF INCORPORATORS, STOCKHOLDERS, OFFICERS AND DIRECTORS

Section 12.01. *Indenture and Notes Solely Corporate Obligations.* No recourse for the payment of the principal of or accrued and unpaid interest on any Note, nor for any claim based thereon or otherwise in respect thereof, and no recourse under or upon any obligation, covenant or agreement of the Company in this Indenture or in any supplemental indenture or in any Note, nor because of the creation of any indebtedness represented thereby, shall be had against any incorporator, stockholder, employee, agent, Officer or director or Subsidiary, as such, past, present or future, of the Company or of any successor corporation, either directly or through the Company or any successor corporation, whether by virtue of any constitution, statute or rule of law, or by the enforcement of any assessment or penalty or otherwise; it being expressly understood that all such liability is hereby expressly waived and released as a condition of, and as a consideration for, the execution of this Indenture and the issue of the Notes.

ARTICLE 13  
INTENTIONALLY OMITTED

ARTICLE 14  
CONVERSION OF NOTES

Section 14.01. *Conversion Privilege.* (a) Subject to and upon compliance with the provisions of this Article 14, each Holder of a Note shall have the right, at such Holder's option, to convert all or any portion (if the portion to be converted is \$1,000 principal amount or an integral multiple thereof) of such Note (i) subject to satisfaction of the conditions described in Section 14.01(b), at any time prior to the close of business on the Business Day immediately preceding June 1, 2024 and (ii) regardless of the conditions described in Section 14.01(b), on or after June 1, 2024 and prior to the close of business on the second Scheduled Trading Day immediately preceding the Maturity Date, in each case, at an initial conversion rate of 115.5001 shares of Common Stock (subject to adjustment as provided in this Article 14, the "**Conversion Rate**") per \$1,000 principal amount of Notes (subject to, and in accordance with, the settlement provisions of Section 14.02, the "**Conversion Obligation**").

(b) (i) Prior to the close of business on the Business Day immediately preceding June 1, 2024, a Holder may surrender all or any portion of its Notes for conversion at any time during the five Business Day period immediately after any five consecutive Trading Day period (the "**Measurement Period**") in which the Trading Price per \$1,000 principal amount of Notes, as determined following a request by a Holder of Notes in accordance with this subsection (b)(i), for each Trading Day of the Measurement Period was less than 98% of the product of the Last Reported Sale Price of the Common Stock on each such Trading Day and the Conversion Rate on each such Trading Day (the "**Trading Price Condition**"). The Trading Prices shall be determined by the Company in accordance with the bids solicited by the Bid Solicitation Agent pursuant to this subsection (b)(i) and the definition of Trading Price set forth in this Indenture. The Company shall provide written notice to the Bid Solicitation Agent (if other than the Company) of the three independent nationally recognized securities dealers selected by the Company pursuant to the definition of Trading Price, along with appropriate contact information for each. The Bid Solicitation Agent (if other than the Company) shall have no obligation to determine the Trading Price per \$1,000 principal amount of Notes unless the Company has requested such determination in writing, and the Company shall have no obligation to make such request (or, if the Company is acting as Bid Solicitation Agent, the Company shall have no obligation to determine the Trading Price per \$1,000 principal amount of Notes) unless a Holder of at least \$1,000,000 aggregate principal amount of Notes provides the Company with

reasonable evidence that the Trading Price per \$1,000 principal amount of Notes on any Trading Day would be less than 98% of the product of the Last Reported Sale Price of the Common Stock on such Trading Day and the Conversion Rate on such Trading Day, at which time the Company shall (i) instruct the three independent nationally recognized securities dealers to deliver bids to the Bid Solicitation Agent and (ii) instruct the Bid Solicitation Agent (if other than the Company) to determine, or if the Company is acting as Bid Solicitation Agent, the Company shall determine, the Trading Price per \$1,000 principal amount of Notes beginning on the next Trading Day and on each successive Trading Day until the Trading Price per \$1,000 principal amount of Notes is greater than or equal to 98% of the product of the Last Reported Sale Price of the Common Stock and the Conversion Rate for the Notes. If (x) the Company is not acting as Bid Solicitation Agent, and the Company does not instruct the Bid Solicitation Agent in writing to determine the Trading Price per \$1,000 principal amount of Notes when obligated as provided in the preceding sentence, or if the Company instructs the Bid Solicitation Agent in writing to obtain bids and the Bid Solicitation Agent fails to make such determination, or (y) the Company is acting as Bid Solicitation Agent and the Company fails to obtain such bids when obligated as provided in the preceding sentence, then, in either case, the Trading Price per \$1,000 principal amount of Notes shall be deemed to be less than 98% of the product of the Last Reported Sale Price of the Common Stock and the Conversion Rate on each Trading Day of such failure. If the Trading Price Condition set forth above has been met, the Company shall so notify the Holders, the Trustee and the Conversion Agent (if other than the Trustee) in writing. Any such determination shall be conclusive absent manifest error. If, at any time after the Trading Price Condition set forth above has been met, the Trading Price per \$1,000 principal amount of Notes is greater than or equal to 98% of the product of the Last Reported Sale Price of the Common Stock and the Conversion Rate for such date, the Company shall so notify the Holders, the Trustee and the Conversion Agent (if other than the Trustee) that the Trading Price Condition is no longer met and thereafter neither the Company nor the Bid Solicitation Agent (if other than the Company) shall be required to solicit bids again until another qualifying request is made as provided in this Section 14.01(b)(i).

(ii) If, prior to the close of business on the Business Day immediately preceding June 1, 2024, the Company elects to:

(A) issue to all or substantially all holders of the Common Stock any rights, options or warrants (other than in connection with a stockholder rights plan, so long as such rights have not separated from the Common Stock and are not exercisable until the occurrence of a Trigger Event, except that such rights shall be deemed issued pursuant to this subsection (A) upon their separation from the Common Stock or upon the occurrence of such Trigger Event) entitling them, for a period of not more than 45 calendar days after the announcement date of such issuance, to subscribe for or purchase shares of the Common Stock at a price per share that is less than the average of the Last Reported Sale Prices of the Common Stock for the 10 consecutive Trading Day period ending on, and including, the Trading Day immediately preceding the date of announcement of such issuance; or

(B) distribute to all or substantially all holders of the Common Stock the Company's assets, securities (other than a distribution of Common Stock in respect of which an adjustment will be effected pursuant to Section 14.04(a)) or rights to purchase securities of the Company, which distribution has a per share value, as reasonably determined by the Company in good faith, exceeding 10% of the Last Reported Sale Price of the Common Stock on the Trading Day immediately preceding the date of announcement for such distribution,

then, in either case, the Company shall notify all Holders of the Notes, the Trustee and the Conversion Agent (if other than the Trustee) at least 55 Scheduled Trading Days prior to the Ex-Dividend Date for such issuance or distribution (or, if later in the case of any such separation of rights issued pursuant to a stockholder rights plan, as soon as reasonably practicable after the Company becomes aware that such separation or Trigger Event has occurred or will occur). Once the Company has given such notice, a Holder may surrender all or any portion of its Notes for conversion at any time until the earlier of (1) the close of business on the Business Day immediately preceding the Ex-Dividend Date for such issuance or distribution and (2) the Company's announcement that such issuance or distribution will not take place (or in the case of a separation or Trigger Event pursuant to a stockholder rights plan, until the 20th Trading Day following the date of the Company's notice), in each case, even if the Notes are not otherwise convertible at such time.

Holders of the Notes may not convert their Notes pursuant to this Section 14.01(b)(ii) if they participate, at the same time and upon the same terms as holders of the Common Stock and solely as a result of holding the Notes, in any of the transactions described above without having to convert their Notes as if they held a number of shares of Common Stock equal to the applicable Conversion Rate *multiplied* by the principal amount (expressed in thousands) of Notes held by such Holder.

(iii) If (i) a transaction or event that constitutes (x) a Fundamental Change or (y) a Make-Whole Fundamental Change occurs prior to the close of business on the Business Day immediately preceding June 1, 2024, regardless of whether a Holder has the right to require the Company to repurchase the Notes pursuant to Section 15.02, or (ii) the Company is a party to a Share Exchange Event (other than a Share Exchange Event that is solely for the purpose of changing the Company's jurisdiction of organization that (x) does not constitute a Fundamental Change or a Make-Whole Fundamental Change and (y) results in a reclassification, conversion or exchange of outstanding shares of the Common Stock solely into shares of common stock of the surviving entity and such common stock becomes Reference Property for the Notes pursuant to Section 14.07) that occurs prior to the close of business on the Business Day immediately preceding June 1, 2024 (each such Fundamental Change, Make-Whole Fundamental Change or Share Exchange Event, a "**Corporate Event**"), all or any portion of a Holder's Notes may be surrendered for conversion at any time from or after the effective date for such Corporate Event until the earlier of (x) 35 Trading Days after the effective date of such Corporate Event or, if such Corporate Event also constitutes a Fundamental Change, the close of business on the Business Day immediately preceding the related Fundamental Change Repurchase Date, and (y) the second Scheduled Trading Day immediately preceding the Maturity Date. The Company shall notify Holders, the Trustee and the Conversion Agent (if other than the Trustee) in writing no later than the actual effective date of such Corporate Event.

(iv) Prior to the close of business on the Business Day immediately preceding June 1, 2024, a Holder may surrender all or any portion of its Notes for conversion at any time during any fiscal quarter commencing after the fiscal quarter ending on December 31, 2019 (and only during such fiscal quarter), if the Last Reported Sale Price of the Common Stock for at least 20 Trading Days (whether or not consecutive) during the period of 30 consecutive Trading Days ending on, and including, the last Trading Day of the immediately preceding fiscal quarter is greater than or equal to 130% of the Conversion Price on each applicable Trading Day. The Company shall determine at the beginning of each fiscal quarter commencing after December 31, 2019 whether the Notes may be surrendered for conversion in accordance with this clause (iv) and shall notify the Holders, the Trustee and the Conversion Agent (if other than the Trustee) in writing if the Notes become convertible in accordance with this clause (iv).

(v) If the Company calls any or all of the Notes for redemption pursuant to Article 16, then a Holder may surrender all or any portion of its Notes for conversion at any time prior to the close of business on the second Scheduled Trading Day immediately preceding the Redemption Date, even if the Notes are not otherwise convertible at such time. After that time, the right to convert pursuant to this subsection (b)(v) shall expire, unless the Company defaults in the payment of the Redemption Price, in which case a Holder of Notes may convert all or any portion of its Notes until the close of business on the Business Day immediately preceding the date on which the Redemption Price has been paid or duly provided for.

*Section 14.02. Conversion Procedures; Settlement Upon Conversion.*

(a) For any conversion of Notes, if the Company has not delivered to the Holders, the Trustee and the Conversion Agent (if other than the Trustee) a written notice (a “**Reserve Notice**”) stating that the Company has duly authorized and reserved for issuance (by all necessary corporate action and arrangements with the transfer agent for the Common Stock) upon conversion of the Notes a number of authorized shares of Common Stock that have not been issued or reserved for any other purpose equal to the Maximum Number of Underlying Shares prior to the relevant Conversion Date (or, if earlier, (x) the date on which the Company issues a Redemption Notice in respect of all conversions for which clause (ii) of the definition of Observation Period applies or (y) June 1, 2024 in respect of all conversions for which clause (iii) of the definition of Observation Period applies) (such Conversion Date or other applicable earlier date in respect of such conversion, the “**Flexible Settlement Deadline**”, and the foregoing condition, the “**Share Reservation Condition**”), and subject to this Section 14.02, Section 14.03(b) and Section 14.07(a), the Company shall pay to the converting Holder, in respect of each \$1,000 principal amount of Notes being converted, solely an amount of cash as if the Company had elected Cash Settlement as set forth in this Section 14.02. The Share Reservation Condition shall be satisfied by delivery, at the Company’s option, of a Reserve Notice within 15 days of the date on which a number of shares of Common Stock equal to the Maximum Number of Underlying Shares has been duly authorized and reserved for issuance as set forth in this Section 14.02(a), and thereafter such Share Reservation Condition shall no longer have any force or effect under this Indenture or the Notes. Neither the Trustee nor the Conversion Agent shall have any obligation to monitor whether the Share Reservation Condition has been satisfied or whether the Flexible Settlement Deadline has occurred. If the Company has satisfied the Share

Reservation Condition by delivering the Reserve Notice prior to the relevant Flexible Settlement Deadline, and subject to this Section 14.02, Section 14.03(b) and Section 14.07(a), upon conversion of any Note, the Company shall pay or deliver, as the case may be, to the converting Holder, in respect of each \$1,000 principal amount of Notes being converted, cash (“**Cash Settlement**”), shares of Common Stock, together with cash, if applicable, in lieu of delivering any fractional share of Common Stock in accordance with subsection (j) of this Section 14.02 (“**Physical Settlement**”) or a combination of cash and shares of Common Stock, together with cash, if applicable, in lieu of delivering any fractional share of Common Stock in accordance with subsection (j) of this Section 14.02 (“**Combination Settlement**”), at its election, as set forth in this Section 14.02.

(i) All conversions for which the relevant Conversion Date occurs after the Company’s issuance of a Redemption Notice with respect to the Notes and prior to the Scheduled Trading Day immediately preceding the related Redemption Date, and all conversions for which the relevant Conversion Date occurs on or after June 1, 2024 will be settled using the same Settlement Method.

(ii) Except for any conversions for which the relevant Conversion Date occurs after the Company’s issuance of a Redemption Notice with respect to the Notes but prior to the Scheduled Trading Day immediately preceding the related Redemption Date, and any conversions for which the relevant Conversion Date occurs on or after June 1, 2024, the Company shall use the same Settlement Method for all conversions occurring on the same Conversion Date, but the Company shall not have any obligation to use the same Settlement Method with respect to conversions occurring on different Conversion Dates.

(iii) (A) Following satisfaction of the Share Reservation Condition prior to the applicable Flexible Settlement Deadline, if, in respect of any Conversion Date (or one of the periods described in the fourth immediately succeeding set of parentheses, as the case may be), the Company elects to deliver a written notice (the “**Settlement Notice**”) of the relevant Settlement Method in respect of such Conversion Date (or such period, as the case may be), the Company shall deliver such Settlement Notice to converting Holders, the Trustee and the Conversion Agent (if other than the Trustee) no later than the close of business on the Trading Day immediately following the relevant Conversion Date (or, in the case of any conversions for which the relevant Conversion Date occurs (x) after the date of issuance of a Redemption Notice with respect to the Notes and prior to the Scheduled Trading Day immediately preceding the related Redemption Date, in such Redemption Notice or (y) on or after June 1, 2024, no later than the close of business on the Scheduled Trading Day immediately preceding June 1, 2024). If the Share Reservation Condition has been satisfied by delivery of a Reserve Notice prior to the applicable Flexible Settlement Deadline and the Company does not elect a Settlement Method prior to the deadline set forth in the immediately preceding sentence, the Company shall no longer have the right to elect Cash Settlement or Physical Settlement for such conversion and the Company shall be deemed to have elected Combination Settlement in respect of its Conversion Obligation for such conversion, and the Specified Dollar Amount per \$1,000 principal amount of Notes shall be equal to \$1,000 (for the avoidance of doubt, subject to Section 14.02(a)(iii)(B) below). Such Settlement Notice shall specify the relevant Settlement Method and in the case of an election of

Combination Settlement, the relevant Settlement Notice shall indicate the Specified Dollar Amount per \$1,000 principal amount of Notes. If the Company delivers a Settlement Notice electing Combination Settlement in respect of its Conversion Obligation but does not indicate a Specified Dollar Amount per \$1,000 principal amount of Notes in such Settlement Notice, the Specified Dollar Amount per \$1,000 principal amount of Notes to be converted shall be deemed to be \$1,000. Notwithstanding anything to the contrary herein, if the Company calls any Notes for redemption pursuant to Article 16 and the related Redemption Date is on or after June 1, 2024, then the Settlement Method that shall apply to all conversions with a Conversion Date that occurs on or after the date the Company sends such Redemption Notice and on or before the second Scheduled Trading Day immediately preceding the related Redemption Date shall be set forth in such Redemption Notice and shall be the same Settlement Method that applies to all conversions with a Conversion Date that occurs on or after June 1, 2024.

(B) By written notice to Holders of the Notes, the Trustee and the Conversion Agent (if other than the Trustee), in respect of any conversion the Company may, after satisfaction of the Share Reservation Condition but prior to the applicable Flexible Settlement Deadline for such conversion, at its option, irrevocably elect to satisfy its Conversion Obligation with respect to the Notes through Combination Settlement with a Specified Dollar Amount per \$1,000 principal amount of Notes of \$1,000 for all such conversions occurring subsequent to delivery of such notice.

(iv) The cash, shares of Common Stock or combination of cash and shares of Common Stock in respect of any conversion of Notes (the “**Settlement Amount**”) shall be computed as follows:

(A) if the Company elects to satisfy its Conversion Obligation in respect of such conversion by Physical Settlement, the Company shall deliver to the converting Holder in respect of each \$1,000 principal amount of Notes being converted a number of shares of Common Stock equal to the Conversion Rate in effect on the Conversion Date;

(B) if the Company elects (or is deemed to have elected) to satisfy its Conversion Obligation in respect of such conversion by Cash Settlement, the Company shall pay to the converting Holder in respect of each \$1,000 principal amount of Notes being converted cash in an amount equal to the sum of the Daily Conversion Values for each of the 50 consecutive Trading Days during the relevant Observation Period; and

(C) if the Company elects (or is deemed to have elected) to satisfy its Conversion Obligation in respect of such conversion by Combination Settlement, the Company shall pay or deliver, as the case may be, in respect of each \$1,000 principal amount of Notes being converted, a Settlement Amount equal to the sum of the Daily Settlement Amounts for each of the 50 consecutive Trading Days during the relevant Observation Period.

(v) The Daily Settlement Amounts (if applicable) and the Daily Conversion Values (if applicable) shall be determined by the Company promptly following the last day of the Observation Period. Promptly after such determination of the Daily Settlement Amounts or the Daily Conversion Values, as the case may be, and the amount of cash payable in lieu of delivering any fractional share of Common Stock, the Company shall notify the Trustee and the Conversion Agent (if other than the Trustee) of the Daily Settlement Amounts or the Daily Conversion Values, as the case may be, and the amount of cash payable in lieu of delivering fractional shares of Common Stock. The Trustee and the Conversion Agent (if other than the Trustee) shall have no responsibility for any such determination.

(b) Subject to Section 14.02(e), before any Holder of a Note shall be entitled to convert a Note as set forth above, such Holder shall (i) in the case of a Global Note, comply with the procedures of the Depository in effect at that time and, if required, pay funds equal to interest payable on the next Interest Payment Date to which such Holder is not entitled as set forth in Section 14.02(h) and/or all transfer or similar taxes as set forth in Sections 14.02(d) and 14.02(e) and (ii) in the case of a Physical Note (1) complete, manually sign and deliver an irrevocable notice to the Conversion Agent as set forth in the Form of Notice of Conversion (or a facsimile thereof) (a “**Notice of Conversion**”) at the office of the Conversion Agent and state in writing therein the principal amount of Notes to be converted and the name or names (with addresses) in which such Holder wishes the certificate or certificates for any shares of Common Stock to be delivered upon settlement of the Conversion Obligation to be registered, (2) surrender such Notes, duly endorsed to the Company or in blank (and accompanied by appropriate endorsement and transfer documents), at the office of the Conversion Agent, (3) if required, furnish appropriate endorsements and transfer documents, (4) if required, pay funds equal to interest payable on the next Interest Payment Date to which such Holder is not entitled as set forth in Section 14.02(h) and (5) if required, pay any transfer or similar taxes as set forth in Sections 14.02(d) and 14.02(e). The Trustee (and if different, the Conversion Agent) shall notify the Company of any conversion pursuant to this Article 14 on the Conversion Date for such conversion. No Notice of Conversion with respect to any Notes may be surrendered by a Holder thereof if such Holder has also delivered a Fundamental Change Repurchase Notice to the Company in respect of such Notes and has not validly withdrawn such Fundamental Change Repurchase Notice in accordance with Section 15.03.

If more than one Note shall be surrendered for conversion at one time by the same Holder, the Conversion Obligation with respect to such Notes shall be computed on the basis of the aggregate principal amount of the Notes (or specified portions thereof to the extent permitted thereby) so surrendered.

(c) A Note shall be deemed to have been converted immediately prior to the close of business on the date (the “**Conversion Date**”) that the Holder has complied with the requirements set forth in subsection (b) above. Except as set forth in Section 14.03(b) and Section 14.07(a), the Company shall pay or deliver, as the case may be, the consideration due in respect of the Conversion Obligation on the second Business Day immediately following the relevant Conversion Date, if the Company elects Physical Settlement, or on the second Business Day immediately following the last Trading Day of the Observation Period, in the case of any other Settlement Method. If any shares of Common Stock are due to converting Holders, the Company shall issue or cause to be issued, and deliver to the Conversion Agent or to such Holder, or such Holder’s nominee or nominees, certificates or a book-entry transfer through the Depository for the full number of shares of Common Stock to which such Holder shall be entitled in satisfaction of the Company’s Conversion Obligation.

(d) In case any Note shall be surrendered for partial conversion, the Company shall execute and the Trustee shall authenticate and deliver to or upon the written order of the Holder of the Note so surrendered a new Note or Notes in authorized denominations in an aggregate principal amount equal to the unconverted portion of the surrendered Note, without payment of any service charge by the converting Holder but, if required by the Company or Trustee, with payment of a sum sufficient to cover any documentary, stamp or similar issue or transfer tax or similar governmental charge required by law or that may be imposed in connection therewith as a result of the name of the Holder of the new Notes issued upon such conversion being different from the name of the Holder of the old Notes surrendered for such conversion.

(e) If a Holder submits a Note for conversion, the Company shall pay any documentary, stamp or similar issue or transfer tax due on the issue of any shares of Common Stock upon conversion, unless the tax is due because the Holder requests such shares to be issued in a name other than the Holder's name, in which case the Holder shall pay that tax. The Conversion Agent may refuse to deliver the certificates representing the shares of Common Stock being issued in a name other than the Holder's name until the Trustee receives a sum sufficient to pay any tax that is due by such Holder in accordance with the immediately preceding sentence.

(f) Except as provided in Section 14.04, no adjustment shall be made for dividends on any shares of Common Stock issued upon the conversion of any Note as provided in this Article 14.

(g) Upon the conversion of an interest in a Global Note, the Trustee, or the Custodian at the direction of the Trustee, shall make a notation on such Global Note as to the reduction in the principal amount represented thereby. The Company shall notify the Trustee in writing of any conversion of Notes effected through any Conversion Agent other than the Trustee.

(h) Upon conversion, a Holder shall not receive any separate cash payment for accrued and unpaid interest, if any, except as set forth below, and the Company shall not adjust the Conversion Rate for any accrued and unpaid interest on the Notes. The Company's settlement of the full Conversion Obligation shall be deemed to satisfy in full its obligation to pay the principal amount of the Note and accrued and unpaid interest, if any, to, but excluding, the relevant Conversion Date. As a result, accrued and unpaid interest, if any, to, but excluding, the relevant Conversion Date shall be deemed to be paid in full rather than cancelled, extinguished or forfeited. Upon a conversion of Notes into a combination of cash and shares of Common Stock, accrued and unpaid interest will be deemed to be paid first out of the cash paid upon such conversion. Notwithstanding the foregoing, if Notes are converted after the close of business on a Regular Record Date but prior to the open of business on the immediately following Interest Payment Date, Holders of such Notes as of the close of business on such Regular Record Date will receive the full amount of interest payable on such Notes on the corresponding Interest Payment Date notwithstanding the conversion. Notes surrendered for conversion during the period from the close of business on any Regular Record Date to the open of business on the

immediately following Interest Payment Date must be accompanied by funds equal to the amount of interest payable on such Interest Payment Date on the Notes so converted; *provided* that no such payment shall be required (1) for conversions of Notes following the close of business on the Regular Record Date immediately preceding the Maturity Date; (2) if the Company has specified a Redemption Date that is after a Regular Record Date and on or prior to the second Scheduled Trading Day immediately following the corresponding Interest Payment Date; (3) if the Company has specified a Fundamental Change Repurchase Date that is after a Regular Record Date and on or prior to the Business Day immediately following the corresponding Interest Payment Date; or (4) to the extent of any Defaulted Amounts, if any Defaulted Amounts exists at the time of conversion with respect to such Note. Therefore, for the avoidance of doubt, all Holders of record on the Regular Record Date immediately preceding the Maturity Date shall receive the full interest payment due on the Maturity Date in cash, regardless of whether their Notes have been converted following such Regular Record Date.

(i) The Person in whose name the shares of Common Stock shall be issuable upon conversion shall be treated as a stockholder of record as of the close of business on the relevant Conversion Date (if the Company elects to satisfy the related Conversion Obligation by Physical Settlement) or the last Trading Day of the relevant Observation Period (if the Company elects (or is deemed to have elected) to satisfy the related Conversion Obligation by Combination Settlement), as the case may be. Upon a conversion of Notes, such Person shall no longer be a Holder of such Notes surrendered for conversion.

(j) The Company shall not issue any fractional share of Common Stock upon conversion of the Notes and shall instead pay cash in lieu of delivering any fractional share of Common Stock issuable upon conversion based on the Daily VWAP for the relevant Conversion Date or, if such Conversion Date is not a Trading Day, the immediately preceding Trading Day (in the case of Physical Settlement) or based on the Daily VWAP for the last Trading Day of the relevant Observation Period (in the case of Combination Settlement). For each Note surrendered for conversion, if the Company has elected (or is deemed to have elected) Combination Settlement, the full number of shares that shall be issued upon conversion thereof shall be computed on the basis of the aggregate Daily Settlement Amounts for the relevant Observation Period and any fractional shares remaining after such computation shall be paid in cash.

(k) Neither the Trustee nor the Conversion Agent shall have any duty to determine whether any of the conditions to conversion set forth in Section 14.01 have been satisfied.

*Section 14.03. Increased Conversion Rate Applicable to Certain Notes Surrendered in Connection with Make-Whole Fundamental Changes or a Redemption Notice.* (a) If (i)(A) the Effective Date of a Make-Whole Fundamental Change occurs prior to the Maturity Date or (B) the Company delivers a Redemption Notice with respect to any or all of the Notes as provided under Section 16.02 and, in each case and (ii) a Holder elects to convert its Notes in connection with such Make-Whole Fundamental Change or Redemption Notice, as applicable, the Company shall, under the circumstances described below, increase the Conversion Rate for the Notes so surrendered for conversion by a number of additional shares of Common Stock (the “**Additional Shares**”), as described below. A conversion of Notes shall be deemed for these purposes to be “in connection with” such Make-Whole Fundamental Change or Redemption Notice if (x) in the case of a Make-Whole Fundamental Change, the relevant Notice of Conversion is received by

the Conversion Agent from, and including, the Effective Date of the Make-Whole Fundamental Change up to, and including, the Business Day immediately prior to the related Fundamental Change Repurchase Date (or, in the case of a Make-Whole Fundamental Change that would have been a Fundamental Change but for the *proviso* in clause (b) of the definition thereof, the 35th Trading Day immediately following the Effective Date of such Make-Whole Fundamental Change) (such period, the “**Make-Whole Fundamental Change Period**”) or (y) in the case of a Redemption Notice, the relevant Notice of Conversion is received by the Conversion Agent from, and including, the date the Company gives the Redemption Notice until the close of business on the second Scheduled Trading Day immediately preceding the corresponding Redemption Date.

(b) Upon surrender of Notes for conversion in connection with a Make-Whole Fundamental Change or a Redemption Notice, (x) prior to satisfaction of the Share Reservation Condition, the Company shall satisfy the related Conversion Obligation by Cash Settlement in accordance with Section 14.02 and (y) following satisfaction of the Share Reservation Condition, the Company shall, at its option, satisfy the related Conversion Obligation by Physical Settlement, Cash Settlement or Combination Settlement in accordance with Section 14.02, in each case, based on the Conversion Rate as increased to reflect the Additional Shares pursuant to the table below; *provided, however*, that if, in either event, at the effective time of a Make-Whole Fundamental Change described in clause (b) of the definition of Fundamental Change, the Reference Property following such Make-Whole Fundamental Change is composed entirely of cash, for any conversion of Notes following the Effective Date of such Make-Whole Fundamental Change, the Conversion Obligation shall be calculated based solely on the Stock Price for the transaction and shall be deemed to be an amount of cash per \$1,000 principal amount of converted Notes equal to the Conversion Rate (including any adjustment for Additional Shares), *multiplied by* such Stock Price. In such event, the Conversion Obligation shall be paid to Holders in cash on the second Business Day following the Conversion Date. The Company shall notify the Holders of Notes, the Trustee and the Conversion Agent (if other than the Trustee) in writing of the Effective Date of any Make-Whole Fundamental Change no later than five Business Days after such Effective Date.

(c) The number of Additional Shares, if any, by which the Conversion Rate shall be increased shall be determined by reference to the table below, based on the date on which the Make-Whole Fundamental Change occurs or becomes effective or the date the Company delivers the relevant Redemption Notice, as the case may be (in each case, the “**Effective Date**”) and the price paid (or deemed to be paid) per share of the Common Stock in the Make-Whole Fundamental Change or determined with respect to the Redemption Notice, as the case may be (the “**Stock Price**”). If the holders of the Common Stock receive in exchange for their Common Stock only cash in a Make-Whole Fundamental Change described in clause (b) of the definition of Fundamental Change, the Stock Price shall be the cash amount paid per share. Otherwise, the Stock Price shall be the average of the Last Reported Sale Prices of the Common Stock over the five consecutive Trading Day period ending on, and including, the Trading Day immediately preceding the Effective Date of the Make-Whole Fundamental Change or the date of the Redemption Notice, as the case may be. The Company shall make appropriate adjustments to the Stock Price, in its good faith determination and in a commercially reasonable manner, to account for any adjustment to the Conversion Rate that becomes effective, or any event requiring an adjustment to the Conversion Rate where the Ex-Dividend Date, Effective Date (as such term is used in Section 14.04) or expiration date of the event occurs during such five consecutive Trading Day period.

(d) The Stock Prices set forth in the column headings of the table below shall be adjusted as of any date on which the Conversion Rate of the Notes is otherwise adjusted. The adjusted Stock Prices shall equal the Stock Prices applicable immediately prior to such adjustment, *multiplied by* a fraction, the numerator of which is the Conversion Rate immediately prior to such adjustment giving rise to the Stock Price adjustment and the denominator of which is the Conversion Rate as so adjusted. The number of Additional Shares set forth in the table below shall be adjusted in the same manner and at the same time as the Conversion Rate as set forth in Section 14.04.

(e) The following table sets forth the number of Additional Shares of Common Stock by which the Conversion Rate for the Notes shall be increased per \$1,000 principal amount of Notes pursuant to this Section 14.03 for each Stock Price and Effective Date set forth below:

<u>Effective Date</u>	<u>\$6.66</u>	<u>\$7.00</u>	<u>\$8.00</u>	<u>\$8.66</u>	<u>\$10.00</u>	<u>\$11.26</u>	<u>\$15.00</u>	<u>\$20.00</u>	<u>\$30.00</u>	<u>\$40.00</u>	<u>\$50.00</u>
September 13, 2019	34.6500	34.6500	28.2867	24.0452	17.7290	13.6489	6.9575	3.2795	0.8829	0.2041	0.0000
September 1, 2020	34.6500	34.6500	27.5440	23.1324	16.6512	12.5454	6.0416	2.6800	0.6483	0.1184	0.0000
September 1, 2021	34.6500	34.6500	26.0251	21.4484	14.8608	10.8133	4.7487	1.9162	0.3957	0.0434	0.0000
September 1, 2022	34.6500	33.7297	23.5769	18.8086	12.1747	8.3105	3.0779	1.0619	0.1759	0.0030	0.0000
September 1, 2023	34.6500	30.7048	19.4315	14.3808	7.8587	4.5203	1.0435	0.2734	0.0376	0.0000	0.0000
September 1, 2024	34.6500	27.3570	9.4999	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

The exact Stock Prices and Effective Dates may not be set forth in the table above, in which case:

(i) if the Stock Price is between two Stock Prices in the table above or the Effective Date is between two Effective Dates in the table, the number of Additional Shares by which the Conversion Rate for the Notes shall be increased shall be determined by a straight-line interpolation between the number of Additional Shares set forth for the higher and lower Stock Prices and the earlier and later Effective Dates, as applicable, based on a 365-day year;

(ii) if the Stock Price is greater than \$50.00 per share (subject to adjustment in the same manner as the Stock Prices set forth in the column headings of the table above pursuant to subsection (d) above), no Additional Shares shall be added to the Conversion Rate for the Notes; and

(iii) if the Stock Price is less than \$6.66 per share (subject to adjustment in the same manner as the Stock Prices set forth in the column headings of the table above pursuant to subsection (d) above), no Additional Shares shall be added to the Conversion Rate for the Notes.

Notwithstanding the foregoing, in no event shall the Conversion Rate per \$1,000 principal amount of Notes exceed 150.1501 shares of Common Stock, subject to adjustment in the same manner as the Conversion Rate pursuant to Section 14.04 (the “**Maximum Conversion Rate**”).

(f) Nothing in this Section 14.03 shall prevent an adjustment to the Conversion Rate pursuant to Section 14.04 in respect of a Make-Whole Fundamental Change.

Section 14.04. *Adjustment of Conversion Rate.* The Conversion Rate shall be adjusted from time to time by the Company if any of the following events occurs, except that the Company shall not make any adjustments to the Conversion Rate if Holders of the Notes participate (other than in the case of a share split or share combination or a tender or exchange offer), at the same time and upon the same terms as holders of the Common Stock and solely as a result of holding the Notes, in any of the transactions described in this Section 14.04, without having to convert their Notes, as if they held a number of shares of Common Stock equal to the Conversion Rate, *multiplied by* the principal amount (expressed in thousands) of Notes held by such Holder.

(a) If the Company exclusively issues shares of Common Stock as a dividend or distribution on shares of the Common Stock, or if the Company effects a share split or share combination, the Conversion Rate shall be adjusted based on the following formula:

$$CR' = CR_0 \times \frac{OS'}{OS_0}$$

where,

- CR<sub>0</sub> = the Conversion Rate in effect immediately prior to the open of business on the Ex-Dividend Date of such dividend or distribution, or immediately prior to the open of business on the Effective Date of such share split or share combination, as applicable;
- CR' = the Conversion Rate in effect immediately after the open of business on such Ex-Dividend Date or Effective Date, as applicable;
- OS<sub>0</sub> = the number of shares of Common Stock outstanding immediately prior to the open of business on such Ex-Dividend Date or Effective Date (before giving effect to any such dividend, distribution, split or combination), as applicable; and
- OS' = the number of shares of Common Stock outstanding immediately after giving effect to such dividend, distribution, share split or share combination, as applicable.

Any adjustment made under this Section 14.04(a) shall become effective immediately after the open of business on the Ex-Dividend Date for such dividend or distribution, or immediately after the open of business on the Effective Date for such share split or share combination, as applicable. If any dividend or distribution of the type described in this Section 14.04(a) is declared but not so paid or made, the Conversion Rate shall be immediately readjusted, effective as of the date the Board of Directors determines not to pay such dividend or distribution, to the Conversion Rate that would then be in effect if such dividend or distribution had not been declared.

(b) If the Company issues to all or substantially all holders of the Common Stock any rights, options or warrants (other than in connection with a stockholder rights plan as set forth in Section 14.11) entitling them, for a period of not more than 45 calendar days after the announcement date of such issuance, to subscribe for or purchase shares of the Common Stock at a price per share that is less than the average of the Last Reported Sale Prices of the Common Stock for the 10 consecutive Trading Day period ending on, and including, the Trading Day immediately preceding the date of announcement of such issuance, the Conversion Rate shall be increased based on the following formula:

$$CR' = CR_0 \times \frac{OS_0 + X}{OS_0 + Y}$$

where,

CR<sub>0</sub> = the Conversion Rate in effect immediately prior to the open of business on the Ex-Dividend Date for such issuance;

CR' = the Conversion Rate in effect immediately after the open of business on such Ex-Dividend Date;

OS<sub>0</sub> = the number of shares of Common Stock outstanding immediately prior to the open of business on such Ex-Dividend Date;

X = the total number of shares of Common Stock issuable pursuant to such rights, options or warrants; and

Y = the number of shares of Common Stock equal to the aggregate price payable to exercise such rights, options or warrants, *divided by* the average of the Last Reported Sale Prices of the Common Stock over the 10 consecutive Trading Day period ending on, and including, the Trading Day immediately preceding the date of announcement of the issuance of such rights, options or warrants.

Any increase made under this Section 14.04(b) shall be made successively whenever any such rights, options or warrants are issued and shall become effective immediately after the open of business on the Ex-Dividend Date for such issuance. To the extent that shares of the Common Stock are not delivered after the expiration of such rights, options or warrants, the Conversion Rate shall be decreased to the Conversion Rate that would then be in effect had the increase with respect to the issuance of such rights, options or warrants been made on the basis of delivery of only the number of shares of Common Stock actually delivered. If such rights, options or warrants are not so issued, the Conversion Rate shall be decreased to the Conversion Rate that would then be in effect if such Ex-Dividend Date for such issuance had not occurred.

For purposes of this Section 14.04(b) and for the purpose of Section 14.01(b)(ii)(A), in determining whether any rights, options or warrants entitle the holders of the Common Stock to subscribe for or purchase shares of the Common Stock at a price per share that is less than such average of the Last Reported Sale Prices of the Common Stock for the 10 consecutive Trading Day period ending on, and including, the Trading Day immediately preceding the date of

announcement for such issuance, and in determining the aggregate offering price of such shares of Common Stock, there shall be taken into account any consideration received by the Company for such rights, options or warrants and any amount payable on exercise or conversion thereof, the value of such consideration, if other than cash, to be determined by the Company in good faith and in a commercially reasonable manner.

(c) If the Company distributes shares of its Capital Stock, evidences of its indebtedness, other assets or property of the Company or rights, options or warrants to acquire its Capital Stock or other securities, to all or substantially all holders of the Common Stock, excluding (i) dividends, distributions or issuances (including share splits) as to which an adjustment was effected (or would be required, disregarding Section 14.04(j)) pursuant to Section 14.04(a) or Section 14.04(b), (ii) dividends or distributions paid exclusively in cash as to which the provisions set forth in Section 14.04(d) shall apply, (iii) distributions of Reference Property upon conversion of, or in exchange for, shares of Common Stock in a Share Exchange Event, (iv) except as set forth in Section 14.11, rights issued pursuant to a stockholder rights plan of the Company and (v) Spin-Offs as to which the provisions set forth below in this Section 14.04(c) shall apply (any of such shares of Capital Stock, evidences of indebtedness, other assets or property or rights, options or warrants to acquire Capital Stock or other securities, the “**Distributed Property**”), then the Conversion Rate shall be increased based on the following formula:

$$CR' = CR_0 \times \frac{SP_0}{SP_0 - FMV}$$

where,

CR<sub>0</sub> = the Conversion Rate in effect immediately prior to the open of business on the Ex-Dividend Date for such distribution;

CR' = the Conversion Rate in effect immediately after the open of business on the Ex-Dividend Date for such distribution;

SP<sub>0</sub> = the average of the Last Reported Sale Prices of the Common Stock over the 10 consecutive Trading Day period ending on, and including, the Trading Day immediately preceding the Ex-Dividend Date for such distribution; and

FMV = the fair market value (as determined by the Company in good faith and in a commercially reasonable manner) of the Distributed Property with respect to each outstanding share of the Common Stock on the Ex-Dividend Date for such distribution.

Any increase made under the portion of this Section 14.04(c) above shall become effective immediately after the open of business on the Ex-Dividend Date for such distribution. If such distribution is not so paid or made, the Conversion Rate shall be decreased to the Conversion Rate that would then be in effect if such distribution had not been declared. Notwithstanding the foregoing, if “FMV” (as defined above) is equal to or greater than “SP<sub>0</sub>” (as defined above), in lieu of the foregoing increase, each Holder of a Note shall receive, in respect of each \$1,000

principal amount of Notes it holds, at the same time and upon the same terms as holders of the Common Stock receive the Distributed Property, the amount and kind of Distributed Property such Holder would have received if such Holder owned a number of shares of Common Stock equal to the Conversion Rate in effect on the Ex-Dividend Date for the distribution. If the Company determines the “FMV” (as defined above) of any distribution for purposes of this Section 14.04(c) by reference to the actual or when-issued trading market for any securities, it shall in doing so consider the prices in such market over the same period used in computing the Last Reported Sale Prices of the Common Stock over the 10 consecutive Trading Day period ending on, and including, the Trading Day immediately preceding the Ex-Dividend Date for such distribution.

With respect to an adjustment pursuant to this Section 14.04(c) where there has been a payment of a dividend or other distribution on the Common Stock of shares of Capital Stock of any class or series, or similar equity interest, of or relating to any Subsidiaries or other business units of the Company, that are, or, when issued, will be, listed or admitted for trading on a U.S. national securities exchange (a “**Spin-Off**”), the Conversion Rate shall be increased based on the following formula:

$$CR' = CR_0 \times \frac{FMV_0 + MP_0}{MP_0}$$

where,

CR<sub>0</sub> = the Conversion Rate in effect immediately prior to the end of the Valuation Period;

CR' = the Conversion Rate in effect immediately after the end of the Valuation Period;

FMV<sub>0</sub> = the average of the Last Reported Sale Prices of the Capital Stock or similar equity interest distributed to holders of the Common Stock applicable to one share of the Common Stock (determined by reference to the definition of Last Reported Sale Price as set forth in Section 1.01 as if references therein to Common Stock were to such Capital Stock or similar equity interest) over the first 10 consecutive Trading Day period after, and including, the Ex-Dividend Date of the Spin-Off (the “**Valuation Period**”); *provided* that if there is no Last Reported Sale Price of the Capital Stock or similar equity interest distributed to holders of the Common Stock on such Ex-Dividend Date, the “Valuation Period” shall be the first ten consecutive Trading Day period after, and including, the first date such Last Reported Sale Price is available; and

MP<sub>0</sub> = the average of the Last Reported Sale Prices of the Common Stock over the Valuation Period.

The increase to the Conversion Rate under the preceding paragraph shall occur at the close of business on the last Trading Day of the Valuation Period; *provided* that (x) in respect of any conversion of Notes for which Physical Settlement is applicable, if the relevant Conversion Date occurs during the Valuation Period, references to “10” in the preceding paragraph shall be deemed to be replaced with such lesser number of Trading Days as have elapsed from, and

including, the Ex-Dividend Date of such Spin-Off to, and including, the Conversion Date in determining the Conversion Rate and (y) in respect of any conversion of Notes for which Cash Settlement or Combination Settlement is applicable, for any Trading Day that falls within the relevant Observation Period for such conversion and within the Valuation Period, references to “10” in the preceding paragraph shall be deemed to be replaced with such lesser number of Trading Days as have elapsed from, and including, the Ex-Dividend Date of such Spin-Off to, and including, such Trading Day in determining the Conversion Rate as of such Trading Day. If any dividend or distribution constituting such Spin-Off is declared but not paid or made, the Conversion Rate shall be immediately decreased, effective as of the date the Board of Directors determines not to pay or make such dividend or distribution, to be the Conversion Rate that would then be in effect if such dividend or distribution had not been declared or announced.

For purposes of this Section 14.04(c) (and subject in all respect to Section 14.11), rights, options or warrants distributed by the Company to all holders of the Common Stock entitling them to subscribe for or purchase shares of the Company’s Capital Stock, including Common Stock (either initially or under certain circumstances), which rights, options or warrants, until the occurrence of a specified event or events (“**Trigger Event**”): (i) are deemed to be transferred with such shares of the Common Stock; (ii) are not exercisable; and (iii) are also issued in respect of future issuances of the Common Stock, shall be deemed not to have been distributed for purposes of this Section 14.04(c) (and no adjustment to the Conversion Rate under this Section 14.04(c) will be required) until the occurrence of the earliest Trigger Event, whereupon such rights, options or warrants shall be deemed to have been distributed and an appropriate adjustment (if any is required) to the Conversion Rate shall be made under this Section 14.04(c). If any such right, option or warrant, including any such existing rights, options or warrants distributed prior to the date of this Indenture, are subject to events, upon the occurrence of which such rights, options or warrants become exercisable to purchase different securities, evidences of indebtedness or other assets, then the date of the occurrence of any and each such event shall be deemed to be the date of distribution and Ex-Dividend Date with respect to new rights, options or warrants with such rights (in which case the existing rights, options or warrants shall be deemed to terminate and expire on such date without exercise by any of the holders thereof). In addition, subject to Section 14.11, in the event of any distribution (or deemed distribution) of rights, options or warrants, or any Trigger Event or other event (of the type described in the immediately preceding sentence) with respect thereto that was counted for purposes of calculating a distribution amount for which an adjustment to the Conversion Rate under this Section 14.04(c) was made, (1) in the case of any such rights, options or warrants that shall all have been redeemed or purchased without exercise by any holders thereof, upon such final redemption or purchase (x) the Conversion Rate shall be readjusted as if such rights, options or warrants had not been issued and (y) the Conversion Rate shall then again be readjusted to give effect to such distribution, deemed distribution or Trigger Event, as the case may be, as though it were a cash distribution, equal to the per share redemption or purchase price received by a holder or holders of Common Stock with respect to such rights, options or warrants (assuming such holder had retained such rights, options or warrants), made to all holders of Common Stock as of the date of such redemption or purchase, and (2) in the case of such rights, options or warrants that shall have expired or been terminated without exercise by any holders thereof, the Conversion Rate shall be readjusted as if such rights, options and warrants had not been issued.

For purposes of Section 14.04(a), Section 14.04(b) and this Section 14.04(c), if any dividend or distribution to which this Section 14.04(c) is applicable also includes one or both of:

(A) a dividend or distribution of shares of Common Stock to which Section 14.04(a) is applicable (the “**Clause A Distribution**”); or

(B) a dividend or distribution of rights, options or warrants to which Section 14.04(b) is applicable (the “**Clause B Distribution**”),

then, in either case, (1) such dividend or distribution, other than the Clause A Distribution and the Clause B Distribution, shall be deemed to be a dividend or distribution to which this Section 14.04(c) is applicable (the “**Clause C Distribution**”) and any Conversion Rate adjustment required by this Section 14.04(c) with respect to such Clause C Distribution shall then be made, and (2) the Clause A Distribution and Clause B Distribution shall be deemed to immediately follow the Clause C Distribution and any Conversion Rate adjustment required by Section 14.04(a) and Section 14.04(b) with respect thereto shall then be made, except that, if determined by the Company (I) the “Ex-Dividend Date” of the Clause A Distribution and the Clause B Distribution shall be deemed to be the Ex-Dividend Date of the Clause C Distribution and (II) any shares of Common Stock included in the Clause A Distribution or Clause B Distribution shall be deemed not to be “outstanding immediately prior to the open of business on such Ex-Dividend Date or Effective Date, as applicable” within the meaning of Section 14.04(a) or “outstanding immediately prior to the open of business on such Ex-Dividend Date” within the meaning of Section 14.04(b).

(d) If any cash dividend or distribution is made to all or substantially all holders of the Common Stock, the Conversion Rate shall be adjusted based on the following formula:

$$CR' = CR_0 \times \frac{SP_0}{SP_0 - C}$$

where,

CR<sub>0</sub> = the Conversion Rate in effect immediately prior to the open of business on the Ex-Dividend Date for such dividend or distribution;

CR' = the Conversion Rate in effect immediately after the open of business on the Ex-Dividend Date for such dividend or distribution;

SP<sub>0</sub> = the Last Reported Sale Price of the Common Stock on the Trading Day immediately preceding the Ex-Dividend Date for such dividend or distribution; and

C = the amount in cash per share the Company distributes to all or substantially all holders of the Common Stock.

Any increase pursuant to this Section 14.04(d) shall become effective immediately after the open of business on the Ex-Dividend Date for such dividend or distribution. If such dividend or distribution is not so paid, the Conversion Rate shall be decreased, effective as of the date the Board of Directors determines not to make or pay such dividend or distribution, to be the Conversion Rate that would then be in effect if such dividend or distribution had not been declared. Notwithstanding the foregoing, if “C” (as defined above) is equal to or greater than “SP<sub>0</sub>” (as defined above), in lieu of the foregoing increase, each Holder of a Note shall receive, for each \$1,000 principal amount of Notes it holds, at the same time and upon the same terms as holders of shares of the Common Stock, the amount of cash that such Holder would have received if such Holder owned a number of shares of Common Stock equal to the Conversion Rate in effect on the Ex-Dividend Date for such cash dividend or distribution.

(e) If the Company or any of its Subsidiaries makes a payment in respect of a tender or exchange offer for the Common Stock that is subject to the then-applicable tender offer rules under the Exchange Act (other than an odd-lot tender offer) to the extent that the cash and value of any other consideration included in the payment per share of the Common Stock exceeds the average of the Last Reported Sale Prices of the Common Stock over the 10 consecutive Trading Day period commencing on, and including, the Trading Day next succeeding the last date on which tenders or exchanges may be made pursuant to such tender or exchange offer, the Conversion Rate shall be increased based on the following formula:

$$CR' = CR_0 \times \frac{AC + (SP' \times OS')}{OS_0 \times SP'}$$

where,

CR<sub>0</sub> = the Conversion Rate in effect immediately prior to the close of business on the 10th Trading Day immediately following, and including, the Trading Day next succeeding the date such tender or exchange offer expires;

CR' = the Conversion Rate in effect immediately after the close of business on the 10th Trading Day immediately following, and including, the Trading Day next succeeding the date such tender or exchange offer expires;

AC = the aggregate value of all cash and any other consideration (as determined by the Company in good faith and in a commercially reasonable manner) paid or payable for shares of Common Stock purchased in such tender or exchange offer;

OS<sub>0</sub> = the number of shares of Common Stock outstanding immediately prior to the date such tender or exchange offer expires (prior to giving effect to the purchase of all shares of Common Stock accepted for purchase or exchange in such tender or exchange offer);

OS' = the number of shares of Common Stock outstanding immediately after the date such tender or exchange offer expires (after giving effect to the purchase of all shares of Common Stock accepted for purchase or exchange in such tender or exchange offer); and

SP' = the average of the Last Reported Sale Prices of the Common Stock over the 10 consecutive Trading Day period commencing on, and including, the Trading Day next succeeding the date such tender or exchange offer expires.

The increase to the Conversion Rate under this Section 14.04(e) shall occur at the close of business on the 10th Trading Day immediately following, and including, the Trading Day next succeeding the date such tender or exchange offer expires; *provided* that (x) in respect of any conversion of Notes for which Physical Settlement is applicable, if the relevant Conversion Date occurs during the 10 Trading Days immediately following, and including, the Trading Day next succeeding the expiration date of any tender or exchange offer, references to “10” or “10th” in the preceding paragraph shall be deemed replaced with such lesser number of Trading Days as have elapsed from, and including, the Trading Day next succeeding the expiration date of such tender or exchange offer to, and including, such Conversion Date in determining the Conversion Rate and (y) in respect of any conversion of Notes for which Cash Settlement or Combination Settlement is applicable for any Trading Day that falls within the relevant Observation Period for such conversion and within the 10 Trading Days immediately following, and including, the Trading Day next succeeding the expiration date of any tender or exchange offer, references to “10” or “10th” in the preceding paragraph shall be deemed replaced with such lesser number of Trading Days as have elapsed from, and including, the Trading Day next succeeding the expiration date of such tender or exchange offer to, and including, such Trading Day in determining the Conversion Rate as of such Trading Day. For the avoidance of doubt, no adjustment under this Section 14.04(e) shall be made if such adjustment would result in a decrease in the Conversion Rate (other than, for the avoidance of doubt, any readjustment described in the immediately succeeding sentence). If the Company or one of its Subsidiaries is obligated to purchase shares of Common Stock pursuant to any such tender or exchange offer described in this Section 14.04(e), but it or such Subsidiary is permanently prevented by applicable law from effecting all or any such purchases or all such purchases are rescinded, the Conversion Rate shall be readjusted to be the Conversion Rate that would then be in effect if such tender or exchange offer had not been made or had been made only in respect of the purchases actually effected.

(f) Notwithstanding this Section 14.04 or any other provision of this Indenture or the Notes, if a Conversion Rate adjustment becomes effective on any Ex-Dividend Date, and a Holder that has converted its Notes on or after such Ex-Dividend Date and on or prior to the related Record Date would be treated as the record holder of the shares of Common Stock as of the related Conversion Date as described under Section 14.02(i) based on an adjusted Conversion Rate for such Ex-Dividend Date, then, notwithstanding the Conversion Rate adjustment provisions in this Section 14.04, the Conversion Rate adjustment relating to such Ex-Dividend Date shall not be made for such converting Holder. Instead, such Holder shall be treated as if such Holder were the record owner of the shares of Common Stock on an unadjusted basis and participate in the related dividend, distribution or other event giving rise to such adjustment.

(g) Notwithstanding this Section 14.04 or any other provision of this Indenture or the Notes, if a Holder converts a Note, Combination Settlement is applicable to such conversion and the Daily Settlement Amount for any Trading Day during the Observation Period applicable to such conversion (i) is calculated based on a Conversion Rate adjusted on account of any event described in clause (a) through (d) of this Section 14.04 and (ii) includes any shares of Common

Stock that entitle their holder to participate in such event, then, notwithstanding the Conversion Rate adjustment required by clause (a), (b), (c) or (d) of this Section 14.04, as the case may be, in respect of such event, such Conversion Rate adjustment shall not be made for such converting Holder for such Trading Day in respect of such event. Instead, such Holder shall be treated as if such Holder were the record owner of the number of shares of Common Stock included in such Daily Settlement Amount on an unadjusted basis and participate in the related dividend, distribution or other event giving rise to such adjustment.

(h) Except as stated herein, the Company shall not adjust the Conversion Rate for the issuance of shares of the Common Stock or any securities convertible into or exchangeable for shares of the Common Stock or the right to purchase shares of the Common Stock or such convertible or exchangeable securities.

(i) In addition to those adjustments required by subsections (a), (b), (c), (d) and (e) of this Section 14.04, and to the extent permitted by applicable law and subject to the applicable rules of any exchange on which any of the Company's securities are then listed, the Company from time to time may increase the Conversion Rate by any amount for a period of at least 20 Business Days if the Board of Directors determines that such increase would be in the Company's best interest. In addition, to the extent permitted by applicable law and subject to the applicable rules of any exchange on which any of the Company's securities are then listed, the Company may (but is not required to) increase the Conversion Rate to avoid or diminish any income tax to holders of Common Stock or rights to purchase Common Stock in connection with a dividend or distribution of shares of Common Stock (or rights to acquire shares of Common Stock) or similar event. Whenever the Conversion Rate is increased pursuant to either of the preceding two sentences, the Company shall deliver to the Holder of each Note a notice of the increase at least 15 days prior to the date the increased Conversion Rate takes effect, and such notice shall state the increased Conversion Rate and the period during which it will be in effect.

(j) Notwithstanding anything to the contrary in this Article 14, the Conversion Rate shall not be adjusted:

(i) on account of open-market share repurchases or other buy-back transactions that are not tender offers described in Section 14.04(e) above, including structured or derivative transactions such as accelerated share repurchase transactions or similar forward derivatives, or pursuant to a share repurchase program approved by the Board of Directors or otherwise;

(ii) upon the issuance of shares of Common Stock at a price below the Conversion Price or otherwise, other than any such issuance described in Sections 14.04(a), (b) or (c) above;

(iii) upon the issuance of any shares of Common Stock pursuant to any present or future plan providing for the reinvestment of dividends or interest payable on the Company's securities and the investment of additional optional amounts in shares of Common Stock under any plan;

(iv) upon the issuance of any shares of Common Stock or options or rights to purchase those shares pursuant to any present or future employee, director or consultant benefit or incentive plan (including pursuant to an evergreen plan) or program of or assumed by the Company or any of the Company's Subsidiaries or for any such shares withheld by the Company for tax withholding purposes;

(v) upon the issuance of any shares of the Common Stock pursuant to any option, warrant, right or exercisable, exchangeable or convertible security not described in clause (iv) of this subsection and outstanding as of the date the Notes were first issued;

(vi) for a tender offer by any party other than a tender offer by the Company or one or more of its Subsidiaries as described in Section 14.04(e);

(vii) solely for a change in the par value (or lack of par value) of the Common Stock; or

(viii) for accrued and unpaid interest, if any.

(k) All calculations and other determinations under this Article 14 shall be made by the Company and shall be made to the nearest one-ten thousandth (1/10,000th) of a share. Notwithstanding anything to the contrary in this Indenture, if an adjustment pursuant to subsections (a), (b), (c), (d) or (e) of this Section 14.04 would result in a change of less than 1% to the Conversion Rate, then, notwithstanding the foregoing, the Company may, at its election, defer such adjustment, except that all such deferred adjustments must be given effect immediately upon the earliest of the following to occur: (i) when all such deferred adjustments would result in an aggregate change of at least 1% to the Conversion Rate; (ii) the Conversion Date (in the case of Physical Settlement) of, or any Trading Day of an Observation Period (in the case of Cash Settlement or Combination Settlement) for, any Note; (iii) the effective date of any Fundamental Change or Make-Whole Fundamental Change; and (iv) June 1, 2024.

(l) Whenever the Conversion Rate is adjusted as herein provided, the Company shall promptly file with the Trustee (and the Conversion Agent if not the Trustee) an Officer's Certificate setting forth the Conversion Rate after such adjustment and setting forth a brief statement of the facts requiring such adjustment. Unless and until a Responsible Officer of the Trustee shall have received such Officer's Certificate, the Trustee shall not be deemed to have knowledge of any adjustment of the Conversion Rate and may assume without inquiry that the last Conversion Rate of which it has knowledge is still in effect. Promptly after delivery of such certificate, the Company shall prepare a notice of such adjustment of the Conversion Rate setting forth the adjusted Conversion Rate and the date on which each adjustment becomes effective and shall deliver such notice of such adjustment of the Conversion Rate to each Holder. Failure to deliver such notice shall not affect the legality or validity of any such adjustment.

(m) For purposes of this Section 14.04, the number of shares of Common Stock at any time outstanding shall not include shares of Common Stock held in the treasury of the Company so long as the Company does not pay any dividend or make any distribution on shares of Common Stock held in the treasury of the Company, but shall include shares of Common Stock issuable in respect of scrip certificates issued in lieu of fractions of shares of Common Stock.

Section 14.05. *Adjustments of Prices.* Whenever any provision of this Indenture requires the Company to calculate the Last Reported Sale Prices, the Daily VWAPs, the Daily Conversion Values or the Daily Settlement Amounts over a span of multiple days (including, without limitation, an Observation Period and the period, if any, for determining the Stock Price for purposes of a Make-Whole Fundamental Change or a Redemption Notice), the Company shall, in good faith and in a commercially reasonable manner, make appropriate adjustments, without duplication in respect of any adjustment made pursuant to Section 14.04, to each to account for any adjustment to the Conversion Rate that becomes effective, or any event requiring an adjustment to the Conversion Rate where the Ex-Dividend Date, Effective Date or expiration date, as the case may be, of the event occurs, at any time during the period when the Last Reported Sale Prices, the Daily VWAPs, the Daily Conversion Values or the Daily Settlement Amounts are to be calculated.

Section 14.06. *Shares to Be Fully Paid.* Following satisfaction of the Share Reservation Condition, the Company shall provide, free from preemptive rights, out of its authorized but unissued shares or shares held in treasury, sufficient shares of Common Stock to provide for conversion of the Notes from time to time as such Notes are presented for conversion (assuming delivery of the maximum number of Additional Shares pursuant to Section 14.03 and that at the time of computation of such number of shares, all such Notes would be converted by a single Holder and that Physical Settlement were applicable).

Section 14.07. *Effect of Recapitalizations, Reclassifications and Changes of the Common Stock.*

(a) In the case of:

- (i) any recapitalization, reclassification or change of the Common Stock (other than a change to par value, or from par value to no par value, or changes resulting from a subdivision or combination),
- (ii) any consolidation, merger, combination or similar transaction involving the Company,
- (iii) any sale, lease or other transfer to a third party of the consolidated assets of the Company and the Company's Subsidiaries substantially as an entirety or
- (iv) any statutory share exchange,

in each case, as a result of which the Common Stock would be converted into, or exchanged for, stock, other securities, other property or assets (including cash or any combination thereof) (any such event, a "**Share Exchange Event**"), then the Company or the successor or purchasing company, as the case may be, shall execute with the Trustee a supplemental indenture without the consent of the Holders permitted under Section 10.01(i) providing that, at and after the effective time of such Share Exchange Event, the right to convert each \$1,000 principal amount of Notes shall be changed into a right to convert such principal amount of Notes into the kind and amount of shares of stock, other securities or other property or assets (including cash or any combination thereof) that a holder of a number of shares of Common Stock equal to the

Conversion Rate immediately prior to such Share Exchange Event would have owned or been entitled to receive (the “**Reference Property**,” with each “**unit of Reference Property**” meaning the kind and amount of Reference Property that a holder of one share of Common Stock is entitled to receive) upon such Share Exchange Event; *provided, however*, that at and after the effective time of the Share Exchange Event, (A) the Company shall continue to have the right to determine the form of consideration to be paid or delivered, as the case may be, upon conversion of Notes in accordance with Section 14.02 and (B) (I) any amount payable in cash upon conversion of the Notes in accordance with Section 14.02 shall continue to be payable in cash, (II) any shares of Common Stock that the Company would have been required to deliver upon conversion of the Notes in accordance with Section 14.02 shall instead be deliverable in the amount and type of Reference Property that a holder of that number of shares of Common Stock would have been entitled to receive in such Share Exchange Event and (III) the Daily VWAP shall be calculated based on the value of a unit of Reference Property.

If the Share Exchange Event causes the Common Stock to be converted into, or exchanged for, the right to receive more than a single type of consideration (determined based in part upon any form of stockholder election), then (i) the Reference Property into which the Notes will be convertible or used to calculate the Daily VWAP, as the case may be, shall be deemed to be the weighted average of the types and amounts of consideration actually received by the holders of Common Stock, and (ii) the unit of Reference Property for purposes of the immediately preceding paragraph shall refer to the consideration referred to in clause (i) attributable to one share of Common Stock. The Company shall notify Holders, the Trustee and the Conversion Agent (if other than the Trustee) in writing of such weighted average as soon as practicable after such determination is made. If the holders of the Common Stock receive only cash in such Share Exchange Event, then for all conversions for which the relevant Conversion Date occurs after the effective date of such Share Exchange Event (A) the consideration due upon conversion of each \$1,000 principal amount of Notes shall be solely cash in an amount equal to the Conversion Rate in effect on the Conversion Date (as may be increased by any Additional Shares pursuant to Section 14.03), *multiplied by* the price paid per share of Common Stock in such Share Exchange Event and (B) the Company shall satisfy the Conversion Obligation by paying cash to converting Holders on the second Business Day immediately following the relevant Conversion Date.

Such supplemental indenture described in the second immediately preceding paragraph shall provide for anti-dilution and other adjustments that shall be as nearly equivalent as is possible to the adjustments provided for in this Article 14. If, in the case of any Share Exchange Event, the Reference Property includes shares of stock, securities or other property or assets (including cash or any combination thereof) of a Person other than the Company or the successor or purchasing corporation, as the case may be, in such Share Exchange Event, then such supplemental indenture shall also be executed by such other Person (if such Person is a party to the relevant Share Exchange Event) and shall contain such additional provisions to protect the interests of the Holders of the Notes as the Board of Directors shall reasonably consider necessary by reason of the foregoing, including the provisions providing for the purchase rights set forth in Article 15.

(b) When the Company executes a supplemental indenture pursuant to subsection (a) of this Section 14.07, the Company shall promptly file with the Trustee an Officer's Certificate briefly stating the reasons therefor, the kind or amount of cash, securities or property or asset that will comprise a unit of Reference Property after any such Share Exchange Event, any adjustment to be made with respect thereto and that all conditions precedent have been complied with, and shall promptly deliver or cause to be delivered notice thereof to all Holders. The Company shall cause notice of the execution of such supplemental indenture to be delivered to each Holder within 20 days after execution thereof. Failure to deliver such notice shall not affect the legality or validity of such supplemental indenture.

(c) None of the foregoing provisions shall affect the right of a holder of Notes to convert its Notes into cash, shares of Common Stock or a combination of cash and shares of Common Stock, as applicable, as set forth in Section 14.01 and Section 14.02 prior to the effective date of such Share Exchange Event.

(d) The above provisions of this Section shall similarly apply to successive Share Exchange Events.

Section 14.08. *Certain Covenants.* (a) The Company covenants that all shares of Common Stock issued upon conversion of Notes will be fully paid and non-assessable by the Company and free from all taxes, liens and charges with respect to the issue thereof.

(b) The Company covenants that, if any shares of Common Stock to be provided for the purpose of conversion of Notes hereunder require registration with or approval of any governmental authority under any federal or state law before such shares of Common Stock may be validly issued upon conversion, the Company will, to the extent then permitted by the rules and interpretations of the Commission, secure such registration or approval, as the case may be.

(c) The Company further covenants that if at any time the Common Stock shall be listed on any national securities exchange or automated quotation system the Company will list and keep listed, so long as the Common Stock shall be so listed on such exchange or automated quotation system, any Common Stock issuable upon conversion of the Notes.

Section 14.09. *Responsibility of Trustee.* The Trustee and any other Conversion Agent shall not at any time be under any duty or responsibility to any Holder to determine the Conversion Rate (or any adjustment thereto) or whether any facts exist that may require any adjustment (including any increase) of the Conversion Rate, or with respect to the nature or extent or calculation of any such adjustment when made, or with respect to the method employed, or herein or in any supplemental indenture provided to be employed, in making the same. The Trustee and any other Conversion Agent shall not be accountable with respect to the validity or value (or the kind or amount) of any shares of Common Stock, or of any securities, property or cash that may at any time be issued or delivered upon the conversion of any Note; and the Trustee and any other Conversion Agent make no representations with respect thereto. Neither the Trustee nor any Conversion Agent shall be responsible for any failure of the Company to issue, transfer or deliver any shares of Common Stock or stock certificates or other securities or property or cash upon the surrender of any Note for the purpose of conversion or to comply with any of the duties, responsibilities or covenants of the Company contained in this Article. Without limiting the generality of the foregoing, neither the Trustee nor any Conversion Agent shall be under any responsibility to determine the correctness of any provisions contained in any

supplemental indenture entered into pursuant to Section 14.07 relating either to the kind or amount of shares of stock or securities or property (including cash) receivable by Holders upon the conversion of their Notes after any event referred to in such Section 14.07 or to any adjustment to be made with respect thereto, but, subject to the provisions of Section 7.01, may accept (without any independent investigation) as conclusive evidence of the correctness of any such provisions, and shall be protected in conclusively relying upon, the Officer's Certificate and Opinion of Counsel (which the Company shall be obligated to file with the Trustee prior to the execution of any such supplemental indenture) with respect thereto. Neither the Trustee nor the Conversion Agent shall be responsible for determining whether any event contemplated by Section 14.01(b) has occurred that makes the Notes eligible for conversion or no longer eligible therefor until the Company has delivered to the Trustee and the Conversion Agent the notices referred to in Section 14.01(b) with respect to the commencement or termination of such conversion rights, on which notices the Trustee and the Conversion Agent may conclusively rely, and the Company agrees to deliver such notices to the Trustee and the Conversion Agent immediately after the occurrence of any such event or at such other times as shall be provided for in Section 14.01(b).

Section 14.10. *Notice to Holders Prior to Certain Actions.* In case of any:

(a) action by the Company or one of its Subsidiaries that would require an adjustment in the Conversion Rate pursuant to Section 14.04 or Section 14.11;

(b) Share Exchange Event; or

(c) voluntary or involuntary dissolution, liquidation or winding-up of the Company or any of its Subsidiaries;

then, in each case (unless notice of such event is otherwise required pursuant to another provision of this Indenture), the Company shall cause to be filed with the Trustee and the Conversion Agent (if other than the Trustee) and to be delivered to each Holder, as promptly as possible but in any event at least 20 days prior to the applicable date hereinafter specified, a notice stating (i) the date on which a record is to be taken for the purpose of such action by the Company or one of its Subsidiaries or, if a record is not to be taken, the date as of which the holders of Common Stock of record are to be determined for the purposes of such action by the Company or one of its Subsidiaries, or (ii) the date on which such Share Exchange Event, dissolution, liquidation or winding-up is expected to become effective or occur, and the date as of which it is expected that holders of Common Stock of record shall be entitled to exchange their Common Stock for securities or other property deliverable upon such Share Exchange Event, dissolution, liquidation or winding-up. Failure to give such notice, or any defect therein, shall not affect the legality or validity of such action by the Company or one of its Subsidiaries, Share Exchange Event, dissolution, liquidation or winding-up.

Section 14.11. *Stockholder Rights Plans.* If the Company has a stockholder rights plan in effect upon conversion of the Notes, each share of Common Stock, if any, issued upon such conversion shall be entitled to receive the appropriate number of rights, if any, and the certificates representing the Common Stock issued upon such conversion shall bear such legends, if any, in each case as may be provided by the terms of any such stockholder rights plan, as the

same may be amended from time to time. However, if, prior to any conversion of Notes, the rights have separated from the shares of Common Stock in accordance with the provisions of the applicable stockholder rights plan, the Conversion Rate shall be adjusted at the time of separation as if the Company distributed to all or substantially all holders of the Common Stock Distributed Property as provided in Section 14.04(c), subject to readjustment in the event of the expiration, termination or redemption of such rights.

Section 14.12. *Exchange in Lieu of Conversion.* (a) When a Holder surrenders its Notes for conversion, the Company may, at its election, direct the Conversion Agent in writing to surrender, on or prior to the Business Day following the relevant Conversion Date, such Notes to one or more financial institutions designated by the Company (the “**Designated Institution**”) for exchange in lieu of conversion. In order to accept any Notes surrendered for conversion for exchange in lieu of conversion, the Designated Institution(s) must agree to timely pay and/or deliver, as the case may be, in exchange for such Notes, the amount of cash, or, following satisfaction of the Share Reservation Condition, cash, shares of Common Stock or combination of cash and shares of Common Stock, at the Company’s election, that would otherwise be due upon conversion as described in Section 14.02 above and in respect of which the Company has notified converting Holders. If the Company makes the election described above, the Company shall, by the close of business on the Trading Day following the relevant Conversion Date, notify the Holder surrendering its Notes for conversion, the Trustee and the Conversion Agent (if other than the Trustee) that the Company has made such election. In addition, the Company shall concurrently notify the Designated Institution(s) of the relevant deadline for delivery of the consideration due upon conversion. Any Notes delivered to the Designated Institution(s) will remain outstanding, subject to applicable procedures of the Depository.

(b) If the Designated Institution(s) agrees to accept any Notes for exchange but does not timely pay and/or deliver, as the case may be, the related consideration due upon conversion, or if the Designated Institution(s) does not accept such Notes for exchange, the Company shall pay and/or deliver, as the case may be, the relevant conversion consideration as if the Company had not made an election pursuant to this Section 14.12.

(c) For the avoidance of doubt, in no event shall the Company’s designation of any Designated Institution(s) pursuant to this Section 14.12 require the Designated Institution(s) to accept any Notes for exchange.

## ARTICLE 15 REPURCHASE OF NOTES AT OPTION OF HOLDERS

Section 15.01. *Intentionally Omitted.*

Section 15.02. *Repurchase at Option of Holders Upon a Fundamental Change.* (a) If a Fundamental Change occurs at any time prior to the Maturity Date, each Holder shall have the right, at such Holder’s option, to require the Company to repurchase for cash all of such Holder’s Notes, or any portion thereof properly surrendered and not validly withdrawn pursuant to Section 15.03 that is equal to \$1,000 or an integral multiple of \$1,000, on the date (the “**Fundamental Change Repurchase Date**”) specified by the Company that is not less than 20 or more than 35

calendar days following the date of the Fundamental Change Company Notice at a repurchase price equal to 100% of the principal amount of the Notes to be repurchased, *plus* accrued and unpaid interest thereon to, but excluding, the Fundamental Change Repurchase Date (the “**Fundamental Change Repurchase Price**”), unless the Fundamental Change Repurchase Date falls after a Regular Record Date but on or prior to the Interest Payment Date to which such Regular Record Date relates, in which case the Company shall instead pay, on such Interest Payment Date, the full amount of accrued and unpaid interest to Holders of record as of the close of business on such Regular Record Date, and the Fundamental Change Repurchase Price shall be equal to 100% of the principal amount of Notes to be repurchased pursuant to this Article 15.

(b) Repurchases of Notes under this Section 15.02 shall be made, at the option of the Holder thereof, upon:

(i) delivery to, and receipt by, the Paying Agent by a Holder of a duly completed notice (the “**Fundamental Change Repurchase Notice**”) in the form set forth in Attachment 2 to the Form of Note attached hereto as Exhibit A, if the Notes are Physical Notes, or in compliance with the Depository’s procedures for surrendering interests in Global Notes, if the Notes are Global Notes, in each case on or before the close of business on the Business Day immediately preceding the Fundamental Change Repurchase Date; and

(ii) delivery of the Notes, if the Notes are Physical Notes, to the Paying Agent at any time after delivery of the Fundamental Change Repurchase Notice (together with all necessary endorsements for transfer) at the Corporate Trust Office of the Paying Agent, or book-entry transfer of the Notes, if the Notes are Global Notes, in compliance with the procedures of the Depository, in each case such delivery being a condition to receipt by the Holder of the Fundamental Change Repurchase Price therefor.

The Fundamental Change Repurchase Notice in respect of any Notes to be repurchased shall state:

(i) in the case of Physical Notes, the certificate numbers of the Notes to be delivered for repurchase;

(ii) the portion of the principal amount of Notes to be repurchased, which must be \$1,000 or an integral multiple thereof; and

(iii) that the Notes are to be repurchased by the Company pursuant to the applicable provisions of the Notes and this Indenture;

*provided, however*, that if the Notes are Global Notes, the Fundamental Change Repurchase Notice must comply with appropriate Depository procedures.

Notwithstanding anything herein to the contrary, any Holder delivering to the Paying Agent the Fundamental Change Repurchase Notice contemplated by this Section 15.02 shall have the right to withdraw, in whole or in part, such Fundamental Change Repurchase Notice at any time prior to the close of business on the Business Day immediately preceding the Fundamental Change Repurchase Date by delivery to, and receipt by, the Paying Agent of a written notice of withdrawal in accordance with Section 15.03.

The Paying Agent shall promptly notify the Company of the receipt by it of any Fundamental Change Repurchase Notice or written notice of withdrawal thereof.

(c) On or before the 20th calendar day after the occurrence of the effective date of a Fundamental Change, the Company shall provide to all Holders of Notes, the Trustee and the Paying Agent (in the case of a Paying Agent other than the Trustee) a written notice (the “**Fundamental Change Company Notice**”) of the occurrence of the effective date of the Fundamental Change and of the repurchase right at the option of the Holders arising as a result thereof. In the case of Physical Notes, such notice shall be delivered by first class mail or, in the case of Global Notes, such notice shall be delivered in accordance with the applicable procedures of the Depository. Each Fundamental Change Company Notice shall specify:

- (i) the events causing the Fundamental Change;
- (ii) the effective date of the Fundamental Change;
- (iii) the last date on which a Holder may exercise the repurchase right pursuant to this Article 15;
- (iv) the Fundamental Change Repurchase Price;
- (v) the Fundamental Change Repurchase Date;
- (vi) the name and address of the Paying Agent and the Conversion Agent, if applicable;
- (vii) if applicable, the Conversion Rate and any adjustments to the Conversion Rate as a result of such Fundamental Change;
- (viii) that the Notes with respect to which a Fundamental Change Repurchase Notice has been delivered by a Holder may be converted only if the Holder validly withdraws the Fundamental Change Repurchase Notice in accordance with the terms of this Indenture; and
- (ix) the procedures that Holders must follow to require the Company to repurchase their Notes.

No failure of the Company to give the foregoing notices and no defect therein shall limit the Holders’ repurchase rights or affect the validity of the proceedings for the repurchase of the Notes pursuant to this Section 15.02.

At the Company’s request made at least five Business Days prior to the date on which notice is to be sent to Holders (or such shorter time as the Trustee may agree), the Trustee shall give such notice in the Company’s name and at the Company’s expense; *provided, however*, that, in all cases, the text of such Fundamental Change Company Notice shall be prepared by the Company.

(d) Notwithstanding anything to the contrary in this Article 15, the Company shall not be required to repurchase, or to make an offer to repurchase, the Notes upon a Fundamental Change if a third party makes such an offer in the same manner, at the same time and otherwise in compliance with the requirements for an offer made by the Company as set forth in this Article 15 and such third party purchases all Notes properly surrendered and not validly withdrawn under its offer in the same manner, at the same time and otherwise in compliance with the requirements for an offer made by the Company as set forth in this Article 15.

(e) Notwithstanding the foregoing, no Notes may be repurchased by the Company on any date at the option of the Holders upon a Fundamental Change if the principal amount of the Notes has been accelerated, and such acceleration has not been rescinded, on or prior to such date (except in the case of an acceleration resulting from a Default by the Company in the payment of the Fundamental Change Repurchase Price with respect to such Notes). The Paying Agent will promptly return to the respective Holders thereof any Physical Notes held by it during the acceleration of the Notes (except in the case of an acceleration resulting from a Default by the Company in the payment of the Fundamental Change Repurchase Price with respect to such Notes), or any instructions for book-entry transfer of the Notes in compliance with the procedures of the Depository shall be deemed to have been cancelled, and, upon such return or cancellation, as the case may be, the Fundamental Change Repurchase Notice with respect thereto shall be deemed to have been withdrawn.

Section 15.03. *Withdrawal of Fundamental Change Repurchase Notice.* (a) A Fundamental Change Repurchase Notice may be withdrawn (in whole or in part) by means of a written notice of withdrawal delivered to, and received by, the Paying Agent in accordance with this Section 15.03 at any time prior to the close of business on the Business Day immediately preceding the Fundamental Change Repurchase Date, specifying:

(i) the principal amount of the Notes with respect to which such notice of withdrawal is being submitted, which must be \$1,000 or a multiple thereof,

(ii) if Physical Notes have been issued, the certificate number of the Note in respect of which such notice of withdrawal is being submitted, and

(iii) the principal amount, if any, of such Note that remains subject to the original Fundamental Change Repurchase Notice, which portion must be in principal amounts of \$1,000 or a multiple thereof;

*provided, however,* that if the Notes are Global Notes, the notice must comply with applicable procedures of the Depository.

Section 15.04. *Deposit of Fundamental Change Repurchase Price.* (a) The Company will deposit with the Trustee (or other Paying Agent appointed by the Company, or if the Company is acting as its own Paying Agent, set aside, segregate and hold in trust as provided in Section 4.04) on or prior to 11:00 a.m., New York City time, on the Fundamental Change Repurchase Date an amount of money sufficient to repurchase all of the Notes to be repurchased at the appropriate Fundamental Change

Repurchase Price. Subject to receipt of funds and/or Notes by the Trustee (or other Paying Agent appointed by the Company), payment for Notes surrendered for repurchase (and not withdrawn prior to the close of business on the Business Day immediately preceding the Fundamental Change Repurchase Date) will be made on the later of (i) the Fundamental Change Repurchase Date (*provided* the Holder has satisfied the conditions in Section 15.02) and (ii) the time of book-entry transfer or the delivery of such Note to the Trustee (or other Paying Agent appointed by the Company) by the Holder thereof in the manner required by Section 15.02 by mailing checks for the amount payable to the Holders of such Notes entitled thereto as they shall appear in the Note Register; *provided, however*, that payments to the Depository shall be made by wire transfer of immediately available funds to the account of the Depository or its nominee. The Trustee (or other Paying Agent appointed by the Company) shall, promptly after such payment and upon written demand by the Company, return to the Company any funds in excess of the Fundamental Change Repurchase Price.

(b) If by 11:00 a.m. New York City time, on the Fundamental Change Repurchase Date, the Trustee (or other Paying Agent appointed by the Company) holds money sufficient to make payment on all the Notes or portions thereof that are to be repurchased on such Fundamental Change Repurchase Date, then, with respect to the Notes that have been properly surrendered for repurchase and have not been validly withdrawn in accordance with the provisions of this Indenture, (i) such Notes will cease to be outstanding, (ii) interest will cease to accrue on such Notes (whether or not book-entry transfer of the Notes has been made or the Notes have been delivered to the Trustee or Paying Agent) and (iii) all other rights of the Holders of such Notes will terminate (other than the right to receive the Fundamental Change Repurchase Price and, if applicable, accrued and unpaid interest).

(c) Upon surrender of a Note that is to be repurchased in part pursuant to Section 15.02, the Company shall execute and the Trustee shall authenticate and deliver to the Holder a new Note in an authorized denomination equal in principal amount to the unredeemed portion of the Note surrendered.

Section 15.05. *Covenant to Comply with Applicable Laws Upon Repurchase of Notes.* In connection with any repurchase offer, the Company will, if required:

- (a) comply with the provisions of any tender offer rules under the Exchange Act that may then be applicable;
- (b) file a Schedule TO or any other required schedule under the Exchange Act; and
- (c) otherwise comply with all federal and state securities laws in connection with any offer by the Company to repurchase the Notes;

in each case, so as to permit the rights and obligations under this Article 15 to be exercised in the time and in the manner specified in this Article 15. To the extent that the provisions of any securities laws or regulations enacted after the date of this Indenture conflict with the provisions of this Indenture relating to the Company's obligations to purchase the Notes upon a Fundamental Change, the Company shall comply with the applicable securities laws and regulations and shall not be deemed to have breached its obligations under such provisions of this Indenture by virtue of such conflict.

ARTICLE 16  
OPTIONAL REDEMPTION

Section 16.01. *Optional Redemption*. No sinking fund is provided for the Notes. The Notes shall not be redeemable by the Company prior to September 6, 2022. On or after September 6, 2022, the Company may redeem (an “**Optional Redemption**”) for cash all or any portion of the Notes, at the Redemption Price, if the Last Reported Sale Price of the Common Stock has been at least 130% of the Conversion Price then in effect for at least 20 Trading Days (whether or not consecutive) during any 30 consecutive Trading Day period (including the last Trading Day of such period) ending on, and including, the Trading Day immediately preceding the date on which the Company provides the Redemption Notice in accordance with Section 16.02

Section 16.02. *Notice of Optional Redemption; Selection of Notes*. (a) In case the Company exercises its Optional Redemption right to redeem all or, as the case may be, any part of the Notes pursuant to Section 16.01, it shall fix a date for redemption (each, a “**Redemption Date**”) and it or, at its written request received by the Trustee not less than 70 Scheduled Trading Days prior to the Redemption Date (or such shorter period of time as may be acceptable to the Trustee), the Trustee, in the name of and at the expense of the Company, shall deliver or cause to be delivered a notice of such Optional Redemption (a “**Redemption Notice**”) not less than 55 nor more than 70 Scheduled Trading Days prior to the Redemption Date to each Holder of Notes so to be redeemed as a whole or in part; *provided, however*, that, if the Company shall give such notice, it shall also give written notice of the Redemption Date to the Trustee and the Paying Agent (if other than the Trustee). The Redemption Date must be a Business Day. Upon surrender of a Note that is to be redeemed in part pursuant to this Article 16, the Company shall execute and the Trustee shall authenticate and deliver to the Holder a new Note in principal amount equal to the unredeemed portion of the Note surrendered.

(b) The Redemption Notice, if delivered in the manner herein provided, shall be conclusively presumed to have been duly given, whether or not the Holder receives such notice. In any case, failure to give such Redemption Notice by mail or any defect in the Redemption Notice to the Holder of any Note designated for redemption as a whole or in part shall not affect the validity of the proceedings for the redemption of any other Note.

(c) Each Redemption Notice shall specify:

(i) the Redemption Date;

(ii) the Redemption Price;

(iii) that on the Redemption Date, the Redemption Price will become due and payable upon each Note to be redeemed, and that interest thereon, if any, shall cease to accrue on and after the Redemption Date;

(iv) the place or places where such Notes are to be surrendered for payment of the Redemption Price;

(v) that Holders may surrender their Notes for conversion at any time prior to the close of business on the Scheduled Trading Day immediately preceding the Redemption Date;

(vi) the procedures a converting Holder must follow to convert its Notes and the Settlement Method and Specified Dollar Amount, if applicable;

(vii) the Conversion Rate and, if applicable, the number of Additional Shares added to the Conversion Rate in accordance with Section 14.03;

(viii) the CUSIP, ISIN or other similar numbers, if any, assigned to such Notes; and

(ix) in case any Note is to be redeemed in part only, the portion of the principal amount thereof to be redeemed and that on and after the Redemption Date, upon surrender of such Note, a new Note in principal amount equal to the unredeemed portion thereof shall be issued.

A Redemption Notice shall be irrevocable.

(d) If the Company is to redeem fewer than all of the outstanding Notes and the Notes to be redeemed are Global Notes, the Notes or portions thereof to be redeemed shall be selected by the Depository in accordance with the applicable procedures of the Depository. If the Company is to redeem fewer than all of the outstanding Notes and the Notes to be redeemed are not Global Notes then held by the Depository, the Trustee shall select the Notes or portions thereof to be redeemed (in principal amounts of \$1,000 or integral multiples of \$1,000 in excess thereof) by lot, on a *pro rata* basis or by another method the Trustee considers to be fair and appropriate. If any Note selected for partial redemption is submitted for conversion in part after such selection, the portion of the Note submitted for conversion shall be deemed (so far as may be possible) to be the portion selected for redemption.

Section 16.03. *Payment of Notes Called for Redemption.* (a) If any Redemption Notice has been given in respect of the Notes in accordance with Section 16.02, the Notes shall become due and payable on the Redemption Date at the place or places stated in the Redemption Notice and at the applicable Redemption Price. On presentation and surrender of the Notes at the place or places stated in the Redemption Notice, the Notes shall be paid and redeemed by the Company at the applicable Redemption Price.

(b) Prior to the open of business on the Redemption Date, the Company shall deposit with the Paying Agent or, if the Company or a Subsidiary of the Company is acting as the Paying Agent, shall segregate and hold in trust as provided in Section 7.05 an amount of cash (in immediately available funds if deposited on the Redemption Date), sufficient to pay the Redemption Price of all of the Notes to be redeemed on such Redemption Date. Subject to receipt of funds by the Paying Agent, payment for the Notes to be redeemed shall be made on the Redemption Date for such Notes. The Paying Agent shall, promptly after such payment and upon written demand by the Company, return to the Company any funds in excess of the Redemption Price.

Section 16.04. *Restrictions on Redemption.* The Company may not redeem any Notes on any date if the principal amount of the Notes has been accelerated in accordance with the terms of this Indenture, and such acceleration has not been rescinded, on or prior to the Redemption Date (except in the case of an acceleration resulting from a Default by the Company in the payment of the Redemption Price with respect to such Notes).

ARTICLE 17  
MISCELLANEOUS PROVISIONS

Section 17.01. *Provisions Binding on Company's Successors.* All the covenants, stipulations, promises and agreements of the Company contained in this Indenture shall bind its successors and assigns whether so expressed or not.

Section 17.02. *Official Acts by Successor Corporation.* Any act or proceeding by any provision of this Indenture authorized or required to be done or performed by any board, committee or Officer of the Company shall and may be done and performed with like force and effect by the like board, committee or officer of any corporation or other entity that shall at the time be the lawful sole successor of the Company.

Section 17.03. *Addresses for Notices, Etc.* Any notice or demand that by any provision of this Indenture is required or permitted to be given or served by the Trustee or by the Holders on the Company shall be deemed to have been sufficiently given or made, for all purposes if given or served by being deposited postage prepaid by registered or certified mail in a post office letter box addressed (until another address is filed by the Company with the Trustee) to Harmonic Inc., 4300 North First Street, San Jose, CA 95134. Any notice, direction, request or demand hereunder to or upon the Trustee shall be deemed to have been sufficiently given or made, for all purposes, if given or served by being deposited postage prepaid by registered or certified mail in a post office letter box addressed to the Corporate Trust Office or sent electronically in PDF format.

The Trustee, by notice to the Company, may designate additional or different addresses for subsequent notices or communications.

The Trustee agrees to accept and act upon instructions or directions pursuant to this Indenture sent by unsecured e-mail, PDF, facsimile transmission or other similar unsecured electronic methods, provided, however, that the Trustee shall have received an incumbency certificate listing persons designated to give such instructions or directions and containing specimen signatures of such designated persons, which such incumbency certificate shall be amended and replaced whenever a person is to be added or deleted from the listing. If the Company elects to give the Trustee e-mail or facsimile instructions (or instructions by a similar electronic method) and the Trustee in its discretion elects to act upon such instructions, the Trustee's understanding of such instructions shall be deemed controlling. The Trustee shall not

be liable for any losses, costs or expenses arising directly or indirectly from the Trustee's reliance upon and compliance with such instructions notwithstanding such instructions conflict or are inconsistent with a subsequent written instruction. The Company agrees to assume all risks arising out of the use of such electronic methods to submit instructions and directions to the Trustee, including without limitation the risk of the Trustee acting on unauthorized instructions, and the risk of interception and misuse by third parties.

Any notice or communication delivered or to be delivered to a Holder of Physical Notes shall be mailed to it by first class mail, postage prepaid, at its address as it appears on the Note Register and shall be sufficiently given to it if so mailed within the time prescribed. Any notice or communication delivered or to be delivered to a Holder of Global Notes shall be delivered in accordance with the applicable procedures of the Depository and shall be sufficiently given to it if so delivered within the time prescribed.

Failure to mail or deliver a notice or communication to a Holder or any defect in it shall not affect its sufficiency with respect to other Holders. If a notice or communication is mailed or delivered, as the case may be, in the manner provided above, it is duly given, whether or not the addressee receives it.

In case by reason of the suspension of regular mail service or by reason of any other cause it shall be impracticable to give such notice to Holders by mail, then such notification as shall be made with the approval of the Trustee shall constitute a sufficient notification for every purpose hereunder.

Section 17.04. *Governing Law; Jurisdiction.* THIS INDENTURE AND EACH NOTE, AND ANY CLAIM, CONTROVERSY OR DISPUTE ARISING UNDER OR RELATED TO THIS INDENTURE AND EACH NOTE, SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK (WITHOUT REGARD TO THE CONFLICTS OF LAWS PROVISIONS THEREOF).

The Company irrevocably consents and agrees, for the benefit of the Holders from time to time of the Notes and the Trustee, that any legal action, suit or proceeding against it with respect to obligations, liabilities or any other matter arising out of or in connection with this Indenture or the Notes may be brought in the courts of the State of New York or the courts of the United States located in the Borough of Manhattan, New York City, New York and, until amounts due and to become due in respect of the Notes have been paid, hereby irrevocably consents and submits to the non-exclusive jurisdiction of each such court *in personam*, generally and unconditionally with respect to any action, suit or proceeding for itself in respect of its properties, assets and revenues.

The Company irrevocably and unconditionally waives, to the fullest extent permitted by law, any objection which it may now or hereafter have to the laying of venue of any of the aforesaid actions, suits or proceedings arising out of or in connection with this Indenture or the Notes brought in the courts of the State of New York or the courts of the United States located in the Borough of Manhattan, New York City, New York and hereby further irrevocably and unconditionally waives and agrees not to plead or claim in any such court that any such action, suit or proceeding brought in any such court has been brought in an inconvenient forum.

Section 17.05. *Evidence of Compliance with Conditions Precedent; Certificates and Opinions of Counsel to Trustee.* Upon any application or demand by the Company to the Trustee to take any action under any of the provisions of this Indenture, the Company shall, if requested by the Trustee, furnish to the Trustee an Officer's Certificate and an Opinion of Counsel stating that such action is permitted by the terms of this Indenture.

Each Officer's Certificate and an Opinion of Counsel provided for, by or on behalf of the Company in this Indenture and delivered to the Trustee with respect to compliance with this Indenture (other than the Officer's Certificates provided for in Section 4.08) shall include (a) a statement that the person signing such certificate is familiar with the requested action and this Indenture; (b) a brief statement as to the nature and scope of the examination or investigation upon which the statement contained in such certificate is based; (c) a statement that, in the judgment of such person, he or she has made such examination or investigation as is necessary to enable him or her to express an informed judgment as to whether or not such action is permitted by this Indenture; and (d) a statement as to whether or not, in the judgment of such person, such action is permitted by this Indenture and that all conditions precedent thereto have been complied with.

Notwithstanding anything to the contrary in this Section 17.05, if any provision in this Indenture specifically provides that the Trustee shall or may receive an Opinion of Counsel in connection with any action to be taken by the Trustee or the Company hereunder, the Trustee shall be entitled to, or entitled to request (and refrain from acting until receiving), such Opinion of Counsel.

Section 17.06. *Legal Holidays.* In any case where any Interest Payment Date, any Fundamental Change Repurchase Date, any Redemption Date or the Maturity Date is not a Business Day, then any action to be taken on such date need not be taken on such date, but may be taken on the next succeeding Business Day with the same force and effect as if taken on such date, and no interest shall accrue in respect of the delay.

Section 17.07. *No Security Interest Created.* Nothing in this Indenture or in the Notes, expressed or implied, shall be construed to constitute a security interest under the Uniform Commercial Code or similar legislation, as now or hereafter enacted and in effect, in any jurisdiction.

Section 17.08. *Benefits of Indenture.* Nothing in this Indenture or in the Notes, expressed or implied, shall give to any Person, other than the Holders, the parties hereto, any Paying Agent, any Conversion Agent, any authenticating agent, any Note Registrar and their successors hereunder, any benefit or any legal or equitable right, remedy or claim under this Indenture.

Section 17.09. *Table of Contents, Headings, Etc.* The table of contents and the titles and headings of the articles and sections of this Indenture have been inserted for convenience of reference only, are not to be considered a part hereof, and shall in no way modify or restrict any of the terms or provisions hereof.

Section 17.10. *Authenticating Agent.* The Trustee may appoint an authenticating agent that shall be authorized to act on its behalf and subject to its direction in the authentication and delivery of Notes in connection with the original issuance thereof and transfers and exchanges of Notes hereunder, including under Section 2.04, Section 2.05, Section 2.06, Section 2.07, Section 10.04 and Section 15.04 as fully to all intents and purposes as though the authenticating agent had been expressly authorized by this Indenture and those Sections to authenticate and deliver Notes. For all purposes of this Indenture, the authentication and delivery of Notes by the authenticating agent shall be deemed to be authentication and delivery of such Notes “by the Trustee” and a certificate of authentication executed on behalf of the Trustee by an authenticating agent shall be deemed to satisfy any requirement hereunder or in the Notes for the Trustee’s certificate of authentication. Such authenticating agent shall at all times be a Person eligible to serve as trustee hereunder pursuant to Section 7.08.

Any corporation or other entity into which any authenticating agent may be merged or converted or with which it may be consolidated, or any corporation or other entity resulting from any merger, consolidation or conversion to which any authenticating agent shall be a party, or any corporation or other entity succeeding to the corporate trust business of any authenticating agent, shall be the successor of the authenticating agent hereunder, if such successor corporation or other entity is otherwise eligible under this Section 17.10, without the execution or filing of any paper or any further act on the part of the parties hereto or the authenticating agent or such successor corporation or other entity.

Any authenticating agent may at any time resign by giving written notice of resignation to the Trustee and to the Company. The Trustee may at any time terminate the agency of any authenticating agent by giving written notice of termination to such authenticating agent and to the Company. Upon receiving such a notice of resignation or upon such a termination, or in case at any time any authenticating agent shall cease to be eligible under this Section, the Trustee may appoint a successor authenticating agent (which may be the Trustee), shall give written notice of such appointment to the Company and shall deliver notice of such appointment to all Holders.

The Company agrees to pay to the authenticating agent from time to time reasonable compensation for its services although the Company may terminate the authenticating agent, if it determines such agent’s fees to be unreasonable.

The provisions of Section 7.02, Section 7.03, Section 7.04, Section 8.03 and this Section 17.10 shall be applicable to any authenticating agent.

If an authenticating agent is appointed pursuant to this Section 17.10, the Notes may have endorsed thereon, in addition to the Trustee’s certificate of authentication, an alternative certificate of authentication in the following form:

\_\_\_\_\_  
as Authenticating Agent, certifies that this is one of the Notes described in the within-named Indenture.

By: \_\_\_\_\_  
Authorized Signatory

Section 17.11. *Execution in Counterparts*. This Indenture may be executed in any number of counterparts, each of which shall be an original, but such counterparts shall together constitute but one and the same instrument. The exchange of copies of this Indenture and of signature pages by facsimile or PDF transmission shall constitute effective execution and delivery of this Indenture as to the parties hereto and may be used in lieu of the original Indenture for all purposes. Signatures of the parties hereto transmitted by facsimile or PDF shall be deemed to be their original signatures for all purposes.

Section 17.12. *Severability*. In the event any provision of this Indenture or in the Notes shall be invalid, illegal or unenforceable, then (to the extent permitted by law) the validity, legality or enforceability of the remaining provisions shall not in any way be affected or impaired.

Section 17.13. *Waiver of Jury Trial*. EACH OF THE COMPANY AND THE TRUSTEE HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL PROCEEDING ARISING OUT OF OR RELATING TO THIS INDENTURE, THE NOTES OR THE TRANSACTIONS CONTEMPLATED HEREBY.

Section 17.14. *Force Majeure*. In no event shall the Trustee be responsible or liable for any failure or delay in the performance of its obligations hereunder arising out of or caused by, directly or indirectly, forces beyond its control, including, without limitation, strikes, work stoppages, accidents, acts of war or terrorism, civil or military disturbances, nuclear or natural catastrophes or acts of God, and interruptions, loss or malfunctions of utilities, communications or computer (software and hardware) services; it being understood that the Trustee shall use reasonable efforts that are consistent with accepted practices in the banking industry to resume performance as soon as practicable under the circumstances.

Section 17.15. *Calculations*. Except as otherwise provided herein, the Company shall be responsible for making all calculations called for under this Indenture and the Notes. These calculations include, but are not limited to, determinations of the Stock Price, the Trading Price of the Notes (for purposes of the Trading Price Condition), the Last Reported Sale Prices of the Common Stock, the Daily VWAPs, the Daily Conversion Values, the Daily Settlement Amounts, accrued interest payable on the Notes, any Additional Interest payable and the Conversion Rate of the Notes. The Company shall make all these calculations in good faith and, absent manifest error, the Company's calculations shall be final and binding on Holders of Notes. The Company shall provide a schedule of its calculations to each of the Trustee and the Conversion Agent, and each of the Trustee and Conversion Agent is entitled to rely conclusively upon the accuracy of the Company's calculations without independent verification. The Company will forward its calculations to any Holder of Notes upon the written request of that Holder at the sole cost and expense of the Company.

Section 17.16. *USA PATRIOT Act*. The parties hereto acknowledge that in accordance with Section 326 of the USA PATRIOT Act, the Trustee, like all financial institutions and in order to help fight the funding of terrorism and money laundering, is required to obtain, verify, and record information that identifies each person or legal entity that establishes a relationship or opens an account with the Trustee. The parties to this Indenture agree that they will provide the Trustee with such information as it may request in order for the Trustee to satisfy the requirements of the USA PATRIOT Act.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the parties hereto have caused this Indenture to be duly executed as of the date first written above.

HARMONIC INC.

By: /s/ Sanjay Kalra

Name: Sanjay Kalra

Title: Chief Financial Officer

U.S. BANK NATIONAL ASSOCIATION, as Trustee

By: /s/ Paula Oswald

Name: Paula Oswald

Title: Vice President

[FORM OF FACE OF NOTE]

[INCLUDE FOLLOWING LEGEND IF A GLOBAL NOTE]

[UNLESS THIS CERTIFICATE IS PRESENTED BY AN AUTHORIZED REPRESENTATIVE OF THE DEPOSITORY TRUST COMPANY, A NEW YORK CORPORATION (“DTC”), TO THE COMPANY OR ITS AGENT FOR REGISTRATION OF TRANSFER, EXCHANGE, OR PAYMENT, AND ANY CERTIFICATE ISSUED IS REGISTERED IN THE NAME OF CEDE & CO. OR IN SUCH OTHER NAME AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF DTC (AND ANY PAYMENT HEREUNDER IS MADE TO CEDE & CO. OR TO SUCH OTHER ENTITY AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF DTC), ANY TRANSFER, PLEDGE, OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL INASMUCH AS THE REGISTERED OWNER HEREOF, CEDE & CO., HAS AN INTEREST HEREIN.]

[INCLUDE FOLLOWING LEGEND IF A RESTRICTED SECURITY]

[THIS SECURITY AND THE COMMON STOCK, IF ANY, ISSUABLE UPON CONVERSION OF THIS SECURITY HAVE NOT BEEN REGISTERED UNDER THE SECURITIES ACT OF 1933, AS AMENDED (THE “SECURITIES ACT”), AND MAY NOT BE OFFERED, SOLD, PLEDGED OR OTHERWISE TRANSFERRED EXCEPT IN ACCORDANCE WITH THE FOLLOWING SENTENCE. BY ITS ACQUISITION HEREOF OR OF A BENEFICIAL INTEREST HEREIN, THE ACQUIRER:

(1) REPRESENTS THAT IT AND ANY ACCOUNT FOR WHICH IT IS ACTING IS A “QUALIFIED INSTITUTIONAL BUYER” (WITHIN THE MEANING OF RULE 144A UNDER THE SECURITIES ACT) AND THAT IT EXERCISES SOLE INVESTMENT DISCRETION WITH RESPECT TO EACH SUCH ACCOUNT, AND

(2) AGREES FOR THE BENEFIT OF HARMONIC INC. (THE “COMPANY”) THAT IT WILL NOT OFFER, SELL, PLEDGE OR OTHERWISE TRANSFER THIS SECURITY OR ANY BENEFICIAL INTEREST HEREIN PRIOR TO THE DATE THAT IS THE LATER OF (X) ONE YEAR AFTER THE LAST ORIGINAL ISSUE DATE HEREOF OR SUCH SHORTER PERIOD OF TIME AS PERMITTED BY RULE 144 UNDER THE SECURITIES ACT OR ANY SUCCESSOR PROVISION THERETO AND (Y) SUCH LATER DATE, IF ANY, AS MAY BE REQUIRED BY APPLICABLE LAW, EXCEPT:

(A) TO THE COMPANY OR ANY SUBSIDIARY THEREOF, OR

(B) PURSUANT TO A REGISTRATION STATEMENT WHICH HAS BECOME EFFECTIVE UNDER THE SECURITIES ACT,  
OR

(C) TO A QUALIFIED INSTITUTIONAL BUYER IN COMPLIANCE WITH RULE 144A UNDER THE SECURITIES ACT, OR  
(D) PURSUANT TO AN EXEMPTION FROM REGISTRATION PROVIDED BY RULE 144 UNDER THE SECURITIES ACT  
OR ANY OTHER AVAILABLE EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT.

PRIOR TO THE REGISTRATION OF ANY TRANSFER IN ACCORDANCE WITH CLAUSE (2)(D) ABOVE, THE COMPANY AND THE TRUSTEE RESERVE THE RIGHT TO REQUIRE THE DELIVERY OF SUCH LEGAL OPINIONS, CERTIFICATIONS OR OTHER EVIDENCE AS MAY REASONABLY BE REQUIRED IN ORDER FOR THE COMPANY TO DETERMINE THAT THE PROPOSED TRANSFER IS BEING MADE IN COMPLIANCE WITH THE SECURITIES ACT AND APPLICABLE STATE SECURITIES LAWS. NO REPRESENTATION IS MADE AS TO THE AVAILABILITY OF ANY EXEMPTION FROM THE REGISTRATION REQUIREMENTS OF THE SECURITIES ACT.]

2.00% Convertible Senior Note due 2024

No. [ ]

[Initially]<sup>2</sup> \$[ ]

CUSIP No. [ ]

Harmonic Inc., a corporation duly organized and validly existing under the laws of the State of Delaware (the “**Company**,” which term includes any successor corporation or other entity under the Indenture referred to on the reverse hereof), for value received hereby promises to pay to [CEDE & CO.]<sup>3</sup> [ ]<sup>4</sup>, or registered assigns, the principal sum [as set forth in the “Schedule of Exchanges of Notes” attached hereto]<sup>5</sup> [of \$[ ]]<sup>6</sup>, which amount, taken together with the principal amounts of all other outstanding Notes, shall not, unless permitted by the Indenture, exceed \$115,500,000 in aggregate at any time, in accordance with the rules and procedures of the Depository, on September 1, 2024, and interest thereon as set forth below.

This Note shall bear interest at the rate of 2.00% per year from September 13, 2019, or from the most recent date to which interest has been paid or provided for to, but excluding, the next scheduled Interest Payment Date until September 1, 2024. Interest is payable semi-annually in arrears on each March 1 and September 1, commencing on March 1, 2020, to Holders of record at the close of business on the preceding February 15 and August 15 (whether or not such day is a Business Day), respectively. Accrued interest on this Note shall be computed on the basis of a 360-day year composed of twelve 30-day months and, for partial months, on the basis of actual days elapsed over a 30-day month. Additional Interest will be payable as set forth in Section 4.06(d), Section 4.06(e) and Section 6.03 of the within-mentioned Indenture, and any reference to interest on, or in respect of, any Note therein shall be deemed to include Additional Interest if, in such context, Additional Interest is, was or would be payable pursuant to any of such Section 4.06(d), Section 4.06(e) or Section 6.03, and any express mention of the payment of Additional Interest in any provision therein shall not be construed as excluding Additional Interest in those provisions thereof where such express mention is not made.

Any Defaulted Amounts shall accrue interest per annum at the rate borne by the Notes from, and including, the relevant payment date to, but excluding, the date on which such Defaulted Amounts shall have been paid by the Company, at its election, in accordance with Section 2.03(c) of the Indenture.

- <sup>2</sup> Include if a global note.
- <sup>3</sup> Include if a global note.
- <sup>4</sup> Include if a physical note.
- <sup>5</sup> Include if a global note.
- <sup>6</sup> Include if a physical note.

The Company shall pay the principal of and interest on this Note, if and so long as such Note is a Global Note, in immediately available funds to the Depository or its nominee, as the case may be, as the registered Holder of such Note. As provided in and subject to the provisions of the Indenture, the Company shall pay the principal of any Notes (other than Notes that are Global Notes) at the office or agency designated by the Company for that purpose. The Company has initially designated the Trustee as its Paying Agent and Note Registrar in respect of the Notes and its Corporate Trust Office as a place where Notes may be presented for payment or for registration of transfer and exchange.

Reference is made to the further provisions of this Note set forth on the reverse hereof, including, without limitation, provisions giving the Holder of this Note the right to convert this Note into cash or, following satisfaction of the Share Reservation Condition, cash, shares of Common Stock or a combination of cash and shares of Common Stock, as applicable, on the terms and subject to the limitations set forth in the Indenture. Such further provisions shall for all purposes have the same effect as though fully set forth at this place.

**This Note, and any claim, controversy or dispute arising under or related to this Note, shall be construed in accordance with and governed by the laws of the State of New York (without regard to the conflicts of laws provisions thereof).**

In the case of any conflict between this Note and the Indenture, the provisions of the Indenture shall control and govern.

This Note shall not be valid or become obligatory for any purpose until the certificate of authentication hereon shall have been signed manually by the Trustee or a duly authorized authenticating agent under the Indenture.

*[Remainder of page intentionally left blank]*

IN WITNESS WHEREOF, the Company has caused this Note to be duly executed.

HARMONIC INC.

By: \_\_\_\_\_  
Name:  
Title:

Dated:

TRUSTEE'S CERTIFICATE OF AUTHENTICATION

U.S. BANK NATIONAL ASSOCIATION as Trustee,  
certifies that this is one of the Notes described in the within-  
named Indenture.

By: \_\_\_\_\_  
Authorized Signatory

*[Signature page to Note]*

Harmonic Inc.  
2.00% Convertible Senior Note due 2024

This Note is one of a duly authorized issue of Notes of the Company, designated as its 2.00% Convertible Senior Notes due 2024 (the “Notes”), limited to the aggregate principal amount of \$115,500,000 all issued or to be issued under and pursuant to an Indenture dated as of September 13, 2019 (as amended, supplemented or modified from time to time in accordance with its terms, the “**Indenture**”), between the Company and U.S. Bank National Association (the “**Trustee**”), to which Indenture and all indentures supplemental thereto reference is hereby made for a description of the rights, limitations of rights, obligations, duties and immunities thereunder of the Trustee, the Company and the Holders of the Notes. Additional Notes may be issued in an unlimited aggregate principal amount, subject to certain conditions specified in the Indenture. Capitalized terms used in this Note and not defined in this Note shall have the respective meanings set forth in the Indenture.

In case certain Events of Default shall have occurred and be continuing, the principal of, and interest on, all Notes may be declared, by either the Trustee or Holders of at least 25% in aggregate principal amount of Notes then outstanding, and upon said declaration shall become, due and payable, in the manner, with the effect and subject to the conditions and certain exceptions set forth in the Indenture.

Subject to the terms and conditions of the Indenture, the Company will make all payments and deliveries in respect of the Fundamental Change Repurchase Price on the Fundamental Change Repurchase Date and the principal amount on the Maturity Date, as the case may be, to the Holder who surrenders a Note to a Paying Agent to collect such payments in respect of the Note. The Company will pay cash amounts in money of the United States that at the time of payment is legal tender for payment of public and private debts.

The Indenture contains provisions permitting the Company and the Trustee in certain circumstances, without the consent of the Holders of the Notes, and in certain other circumstances, with the consent of the Holders of not less than a majority in aggregate principal amount of the Notes at the time outstanding, evidenced as in the Indenture provided, to execute supplemental indentures modifying the terms of the Indenture and the Notes as described therein. It is also provided in the Indenture that, subject to certain exceptions, the Holders of a majority in aggregate principal amount of the Notes at the time outstanding may on behalf of the Holders of all of the Notes waive any past Default or Event of Default under the Indenture and its consequences.

No reference herein to the Indenture and no provision of this Note or of the Indenture shall alter or impair the obligation of the Company, which is absolute and unconditional, to pay or deliver, as the case may be, the principal (including the Redemption Price and the Fundamental Change Repurchase Price, if applicable) of, accrued and unpaid interest on, and the consideration due upon conversion of, this Note at the place, at the respective times, at the rate and in the lawful money or shares of Common Stock, as the case may be, herein prescribed.

The Notes are issuable in registered form without coupons in denominations of \$1,000 principal amount and integral multiples thereof. At the office or agency of the Company referred to on the face hereof, and in the manner and subject to the limitations provided in the Indenture, Notes may be exchanged for a like aggregate principal amount of Notes of other authorized denominations, without payment of any service charge but, if required by the Company or Trustee, with payment of a sum sufficient to cover any transfer or similar tax that may be imposed in connection therewith as a result of the name of the Holder of the new Notes issued upon such exchange of Notes being different from the name of the Holder of the old Notes surrendered for such exchange.

The Notes shall be redeemable at the Company's option on or after September 6, 2022 in accordance with the terms and subject to the conditions specified in the Indenture. No sinking fund is provided for the Notes.

Upon the occurrence of a Fundamental Change, the Holder has the right, at such Holder's option exercised in the manner specified in the Indenture, to require the Company to repurchase for cash all of such Holder's Notes or any portion thereof (in principal amounts of \$1,000 or multiples thereof) on the Fundamental Change Repurchase Date at a price equal to the Fundamental Change Repurchase Price.

Subject to the provisions of the Indenture, the Holder hereof has the right, at its option, during certain periods and upon the occurrence of certain conditions specified in the Indenture, prior to the close of business on the second Scheduled Trading Day immediately preceding the Maturity Date, to convert any Notes or portion thereof that is \$1,000 or a multiple thereof, into (a) solely cash prior to the Company's satisfaction of the Share Reservation Condition or (b) following the Company's satisfaction of the Share Reservation Condition, cash, shares of Common Stock or a combination of cash and shares of Common Stock, at the Company's election and subject to the limitations set forth in the Indenture, in each case at the Conversion Rate specified in the Indenture, as adjusted from time to time as provided in the Indenture.

## ABBREVIATIONS

The following abbreviations, when used in the inscription of the face of this Note, shall be construed as though they were written out in full according to applicable laws or regulations:

TEN COM = as tenants in common

UNIF GIFT MIN ACT = Uniform Gifts to Minors Act

CUST = Custodian

TEN ENT = as tenants by the entireties

JT TEN = joint tenants with right of survivorship and not as tenants in common

Additional abbreviations may also be used though not in the above list.



[FORM OF NOTICE OF CONVERSION]

To: Harmonic Inc.

To: U.S. Bank National Association  
633 West Fifth Street, 24th Floor  
Los Angeles, CA 90071  
Attention: Global Corporate Trust Services – P. Oswald (Harmonic Inc.)

The undersigned registered owner of this Note hereby exercises the option to convert this Note, or the portion hereof (that is \$1,000 principal amount or a multiple thereof) below designated, into [cash]<sup>8</sup> [cash, shares of Common Stock or a combination of cash and shares of Common Stock, as applicable,]<sup>9</sup> in accordance with the terms of the Indenture referred to in this Note, and directs that any cash payable and any shares of Common Stock issuable and deliverable upon such conversion, together with any cash for any fractional share, and any Notes representing any unconverted principal amount hereof, be issued and delivered to the registered Holder hereof unless a different name has been indicated below. If any shares of Common Stock or any portion of this Note not converted are to be issued in the name of a Person other than the undersigned, the undersigned will pay all documentary, stamp or similar issue or transfer taxes, if any in accordance with Section 14.02(d) and Section 14.02(e) of the Indenture. Any amount required to be paid to the undersigned on account of interest accompanies this Note. Capitalized terms used herein but not defined shall have the meanings ascribed to such terms in the Indenture.

Dated: \_\_\_\_\_

\_\_\_\_\_  
Signature(s)

\_\_\_\_\_  
Signature Guarantee

Signature(s) must be guaranteed  
by an eligible Guarantor Institution  
(banks, stock brokers, savings and  
loan associations and credit unions)

<sup>8</sup> Prior to satisfaction of Share Reservation Condition.  
<sup>9</sup> After satisfaction of Share Reservation Condition.

with membership in an approved signature guarantee medallion program pursuant to Securities and Exchange Commission Rule 17Ad-15 if shares of Common Stock are to be issued, or Notes are to be delivered, other than to and in the name of the registered holder.

Fill in for registration of shares if to be issued, and Notes if to be delivered, other than to and in the name of the registered holder:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Street Address)

\_\_\_\_\_  
(City, State and Zip Code)  
Please print name and address

Principal amount to be converted (if less than all):  
\$\_\_\_\_\_,000

NOTICE: The above signature(s) of the Holder(s) hereof must correspond with the name as written upon the face of the Note in every particular without alteration or enlargement or any change whatever.

\_\_\_\_\_  
Social Security or Other Taxpayer  
Identification Number

[FORM OF FUNDAMENTAL CHANGE REPURCHASE NOTICE]

To: Harmonic Inc.

To: U.S. Bank National Association  
633 West Fifth Street, 24th Floor  
Los Angeles, CA 90071  
Attention: Global Corporate Trust Services – P. Oswald (Harmonic Inc.)

The undersigned registered owner of this Note hereby acknowledges receipt of a notice from Harmonic Inc. (the “Company”) as to the occurrence of a Fundamental Change with respect to the Company and specifying the Fundamental Change Repurchase Date and requests and instructs the Company to pay to the registered holder hereof in accordance with Section 15.02 of the Indenture referred to in this Note (1) the entire principal amount of this Note, or the portion thereof (that is \$1,000 principal amount or a multiple thereof) below designated, and (2) if such Fundamental Change Repurchase Date does not fall during the period after a Regular Record Date and on or prior to the corresponding Interest Payment Date, accrued and unpaid interest, if any, thereon to, but excluding, such Fundamental Change Repurchase Date. Capitalized terms used herein but not defined shall have the meanings ascribed to such terms in the Indenture.

In the case of Physical Notes, the certificate numbers of the Notes to be repurchased are as set forth below:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Signature(s)

\_\_\_\_\_  
Social Security or Other Taxpayer  
Identification Number

Principal amount to be repurchased (if less than all):  
\$\_\_\_\_\_,000

NOTICE: The above signature(s) of the Holder(s) hereof must correspond with the name as written upon the face of the Note in every particular without alteration or enlargement or any change whatever.

## [FORM OF ASSIGNMENT AND TRANSFER]

For value received \_\_\_\_\_ hereby sell(s), assign(s) and transfer(s) unto \_\_\_\_\_ (Please insert social security or Taxpayer Identification Number of assignee) the within Note, and hereby irrevocably constitutes and appoints \_\_\_\_\_ attorney to transfer the said Note on the books of the Company, with full power of substitution in the premises.

In connection with any transfer of the within Note occurring prior to the Resale Restriction Termination Date, as defined in the Indenture governing such Note, the undersigned confirms that such Note is being transferred:

- To Harmonic Inc. (the "Company") or a subsidiary thereof; or
- Pursuant to a registration statement that has become or been declared effective under the Securities Act of 1933, as amended; or
- Pursuant to and in compliance with Rule 144A under the Securities Act of 1933, as amended; or
- Pursuant to and in compliance with Rule 144 under the Securities Act of 1933, as amended, or any other available exemption from the registration requirements of the Securities Act of 1933, as amended.

Dated: \_\_\_\_\_

\_\_\_\_\_  
Signature(s)

\_\_\_\_\_  
Signature Guarantee

Signature(s) must be guaranteed by an eligible Guarantor Institution (banks, stock brokers, savings and loan associations and credit unions) with membership in an approved signature guarantee medallion program pursuant to Securities and Exchange Commission Rule 17Ad-15 if Notes are to be delivered, other than to and in the name of the registered holder.

NOTICE: The signature on the assignment must correspond with the name as written upon the face of the Note in every particular without alteration or enlargement or any change whatever.

HARMONIC INC.

(a Delaware corporation)

\$105,000,000

2.00% Convertible Senior Notes due 2024

PURCHASE AGREEMENT

Dated: September 10, 2019

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HARMONIC INC.

(a Delaware corporation)

\$105,000,000

2.00% Convertible Senior Notes due 2024

**PURCHASE AGREEMENT**

September 10, 2019

BARCLAYS CAPITAL INC.

As Representative of the several  
Initial Purchasers named in Schedule A attached hereto,

c/o Barclays Capital Inc.  
745 Seventh Avenue  
New York, New York 10019

Ladies and Gentlemen:

Harmonic Inc., a Delaware corporation (the “Company”), confirms its agreement with Barclays Capital Inc. (“Barclays”) and each of the other Initial Purchasers named in Schedule A hereto (collectively, the “Initial Purchasers,” which term shall also include any initial purchaser substituted as hereinafter provided in Section 11 hereof), for whom Barclays is acting as representative (in such capacity, the “Representative”), with respect to (i) the sale by the Company and the purchase by the Initial Purchasers, acting severally and not jointly, of the respective principal amounts set forth in said Schedule A of \$105,000,000 aggregate principal amount of the Company’s 2.00% Convertible Senior Notes due 2024 (the “Initial Securities”) and (ii) the grant by the Company to the Initial Purchasers, acting severally and not jointly, of the option to purchase all or any part of an additional \$10,500,000 aggregate principal amount of its 2.00% Convertible Senior Notes due 2024 (the “Option Securities” and, together with the Initial Securities, the “Securities”) as provided in Section 2(b) hereof. The Securities are to be issued pursuant to an indenture dated as of September 13, 2019 (the “Indenture”) between the Company and U.S. Bank National Association, as trustee (the “Trustee”). The Securities will be convertible into cash, shares of the Company’s common stock, par value \$0.001 per share (the “Common Stock” and, such shares, the “Conversion Shares”), or a combination of cash and Common Stock, at the Company’s election, as set forth in the Offering Memorandum (as defined below).

The Company understands that the Initial Purchasers propose to make an offering of the Securities on the terms and in the manner set forth herein and agrees that the Initial Purchasers may resell, subject to the conditions set forth herein, all or a portion of the Securities to purchasers (“Subsequent Purchasers”) at any time after this Agreement has been executed and delivered. The Securities are to be offered and sold through the Initial Purchasers without being registered under the Securities Act of 1933, as amended (the “1933 Act”), in reliance upon exemptions therefrom. Pursuant to the terms of the Securities and the Indenture, investors that acquire Securities may only resell or otherwise transfer such Securities if such Securities are hereafter registered under the 1933 Act or if an exemption from the registration requirements of the 1933 Act is available (including the exemption afforded by Rule 144A (“Rule 144A”) of the rules and regulations promulgated under the 1933 Act (the “1933 Act Regulations”) by the Securities and Exchange Commission (the “Commission”).

The Company has prepared and delivered to each Initial Purchaser copies of a preliminary offering memorandum dated September 10, 2019 prior to the Applicable Time (as defined below) (the “Preliminary Offering Memorandum”) and has prepared and will deliver to each Initial Purchaser, on the date hereof or the next succeeding day or such later date specified by each Initial Purchaser, copies of a final offering memorandum dated September 10, 2019 (the “Final Offering Memorandum”), each for use by such Initial Purchaser in connection with its solicitation of purchases of, or offering of, the Securities. “Offering Memorandum” means, with respect to any date or time referred to in this Agreement, the most recent offering memorandum (whether the Preliminary Offering Memorandum or the Final Offering Memorandum, or any amendment or supplement to either such document), including exhibits thereto and any documents incorporated therein by reference, which has been prepared and delivered by the Company to the Initial Purchasers, in the case of the Preliminary Offering Memorandum prior to the Applicable Time, in connection with their solicitation of purchases of, or offering of, the Securities. The Company will prepare a final term sheet reflecting the final terms of the Securities, in the form set forth in Schedule B hereto (the “Final Term Sheet”), and will deliver such Final Term Sheet to the Initial Purchasers prior to the Applicable Time in connection with their solicitation of purchases of, or offering of, the Securities. Each party agrees that, unless it obtains the prior written consent of such other party, it will not make any offer relating to the Securities by any written materials other than the Offering Memorandum and the Issuer Written Information. “Issuer Written Information” means (i) any writing intended for general distribution to investors as evidenced by its being specified in Schedule C hereto, including the Final Term Sheet, and (ii) any “road show” that is a “written communication” within the meaning of the 1933 Act. “General Disclosure Package” means the Preliminary Offering Memorandum and any Issuer Written Information specified on Schedule C hereto and issued at or prior to 7:00 p.m. New York City time, on September 10, 2019 or such other time as agreed by the Company and Barclays (such date and time, the “Applicable Time”).

All references in this Agreement to financial statements and schedules and other information which is “contained,” “included” or “stated” in the Offering Memorandum (or other references of like import) shall be deemed to mean and include all such financial statements and schedules and other information which are incorporated by reference in the Offering Memorandum; and all references in this Agreement to amendments or supplements to the Offering Memorandum shall be deemed to mean and include the filing of any document under the Securities Exchange Act of 1934 (the “1934 Act”) which is incorporated by reference in the Offering Memorandum.

#### SECTION 1. Representations and Warranties.

(a) *Representations and Warranties by the Company.* The Company represents and warrants to each Initial Purchaser as of the date hereof, the Applicable Time, the Closing Time (as defined below) and any Date of Delivery (as defined below), and agrees with each Initial Purchaser, as follows:

(i) General Disclosure Package; Rule 144A Eligibility. The Company hereby confirms that it has authorized the use of the General Disclosure Package, including the Preliminary Offering Memorandum and the Final Term Sheet, and the Final Offering Memorandum in connection with the offer and sale of the Securities by the Initial Purchasers. The Securities satisfy the requirements set forth in Rule 144A(d)(3).

(ii) No Registration Required; No General Solicitation. Subject to compliance by the Initial Purchasers with the representations and warranties of the Initial Purchasers and the procedures set forth in Section 6 hereof, it is not necessary in connection with the offer, sale and delivery of the offered Securities to the Initial Purchasers and to each Subsequent Purchaser in the manner contemplated by this Agreement, the General Disclosure Package and the Final Offering Memorandum to register the Securities under the 1933 Act or to qualify the Indenture under the

Trust Indenture Act of 1939, as amended (the “1939 Act”). None of the Company, its Affiliates or any person acting on its or any of their behalf (other than the Initial Purchasers and persons acting on their behalf, as to whom the Company makes no representation) has engaged, in connection with the offering of the offered Securities, in any form of general solicitation or general advertising within the meaning of Rule 502(c) under the 1933 Act Regulations.

(iii) Compliance with Rule 144. Each of the Preliminary Offering Memorandum, the General Disclosure Package and the Final Offering Memorandum, each as of its respective date, contains all the information specified in, and meeting the requirements of, Rule 144A(d)(4).

(iv) Accurate Disclosure. As of the Applicable Time, neither (A) the General Disclosure Package nor (B) any Issuer Written Information, when considered together with the General Disclosure Package, included, includes or will include an untrue statement of a material fact or omitted, omits or will omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. The Final Offering Memorandum, as of its date, at the Closing Time or at any Date of Delivery, did not, does not and will not contain an untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading. The documents incorporated or deemed to be incorporated by reference in the General Disclosure Package and the Final Offering Memorandum, when such documents incorporated by reference were filed with the Commission, when read together with the other information in the General Disclosure Package or the Final Offering Memorandum, as the case may be, did not, does not and will not contain an untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading.

The representations and warranties in this subsection shall not apply to statements in or omissions from the General Disclosure Package or the Final Offering Memorandum made in reliance upon and in conformity with written information furnished to the Company by any Initial Purchaser through Barclays expressly for use therein. For purposes of this Agreement, the only information so furnished shall be the information in the fourth sentence of the first paragraph and the first sentence of the second paragraph under the heading “Plan of Distribution—Rule 144A,” and the information in the first five sentences under the heading “Plan of Distribution—Stabilization and Short Positions” in the Offering Memorandum (collectively, the “Initial Purchaser Information”).

(v) Incorporation of Documents by Reference. The documents incorporated or deemed to be incorporated by reference in the Offering Memorandum, when they were or hereafter are filed with the Commission, complied and will comply in all material respects with the requirements of the 1934 Act and the rules and regulations of the Commission under the 1934 Act (the “1934 Act Regulations”).

(vi) Independent Accountants. Armanino LLP, who have certified certain financial statements of the Company, whose report appears in the General Disclosure Package and the Final Offering Memorandum or is incorporated by reference therein and who have delivered the initial letter referred to in Section 5(d) hereof, are independent registered public accountants with respect to the Company and its subsidiaries within the meaning of the 1933 Act and the applicable rules and regulations adopted by the Commission and the Public Company Accounting Oversight Board. PricewaterhouseCoopers LLP, whose report appears in the General Disclosure Package and the Final Offering Memorandum or is incorporated by reference and who have delivered the initial letter referred to in Section 5(e) hereof, were independent registered public accountants with respect

to the Company and its subsidiaries within the meaning of the 1933 Act and the applicable rules and regulations adopted by the Commission and the Public Company Accounting Oversight Board during the periods covered by the financial statements on which they reported contained or incorporated by reference in the General Disclosure Package and the Final Offering Memorandum.

(vii) Financial Statements. The financial statements included or incorporated by reference in the General Disclosure Package and the Final Offering Memorandum, together with the related schedules and notes, present fairly in all material respects the financial position of the Company and its consolidated subsidiaries at the dates indicated and the statement of operations, stockholders' equity and cash flows of the Company and its consolidated subsidiaries for the periods specified; said financial statements have been prepared in conformity with U.S. generally accepted accounting principles ("GAAP") applied on a consistent basis throughout the periods involved. The supporting schedules, if any, present fairly in all material respects in accordance with GAAP the information required to be stated therein. The selected financial data and the summary financial information included in the Offering Memorandum present fairly in all material respects the information shown therein and have been compiled on a basis consistent with that of the audited financial statements included therein. The interactive data in eXtensible Business Reporting Language incorporated by reference in the General Disclosure Package and the Final Offering Memorandum fairly presents the information called for in all material respects and has been prepared in accordance with the Commission's rules and guidelines applicable thereto.

(viii) No Material Adverse Change in Business. Except as otherwise stated therein, since the respective dates as of which information is given in the General Disclosure Package or the Final Offering Memorandum, (A) there has been no material adverse change in the condition, financial or otherwise, or in the earnings, business affairs or business prospects of the Company and its subsidiaries considered as one enterprise, whether or not arising in the ordinary course of business (a "Material Adverse Effect") and (B) there have been no transactions entered into by the Company or any of its subsidiaries, other than those in the ordinary course of business, which are material with respect to the Company and its subsidiaries considered as one enterprise.

(ix) Good Standing of the Company. The Company has been duly organized and is validly existing as a corporation in good standing under the laws of the State of Delaware and has corporate power and authority to own, lease and operate its properties and to conduct its business as described in the General Disclosure Package and the Final Offering Memorandum and to enter into and perform its obligations under this Agreement; and the Company is duly qualified as a foreign corporation to transact business and is in good standing in each other jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business, except where the failure so to qualify or to be in good standing would not result in a Material Adverse Effect.

(x) Good Standing of Subsidiaries. Each "significant subsidiary" of the Company (as such term is defined in Rule 1-02 of Regulation S-X) (each, a "Subsidiary" and collectively, the "Subsidiaries") has been duly organized and is validly existing in good standing under the laws of the jurisdiction of its incorporation or organization, has corporate or similar power and authority to own, lease and operate its properties and to conduct its business as described in the General Disclosure Package and the Final Offering Memorandum and is duly qualified to transact business and is in good standing in each jurisdiction in which such qualification is required, whether by reason of the ownership or leasing of property or the conduct of business, except where the failure to so qualify or to be in good standing would not result in a Material Adverse Effect. Except as otherwise disclosed in the General Disclosure Package and the Final Offering Memorandum, all of the issued and outstanding capital stock of each Subsidiary has been duly authorized and validly

issued, is fully paid and non-assessable and is owned by the Company, directly or through subsidiaries, free and clear of any security interest, mortgage, pledge, lien, encumbrance, claim or equity. None of the outstanding shares of capital stock of any Subsidiary was issued in violation of any preemptive or similar rights of any securityholder of such Subsidiary. The Company does not own or control, directly or indirectly, any corporation, association or other entity other than the subsidiaries listed in Exhibit 21 to the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2018.

(xi) Capitalization. The authorized, issued and outstanding shares of capital stock of the Company are as set forth in the General Disclosure Package and the Final Offering Memorandum in the column entitled "Actual" under the caption "Capitalization" (except for subsequent issuances, if any, pursuant to this Agreement, pursuant to reservations, agreements or employee benefit plans referred to in the General Disclosure Package and the Final Offering Memorandum, or pursuant to the exercise of convertible securities or options referred to in the General Disclosure Package and the Final Offering Memorandum), and all of the issued shares of capital stock of the Company have been duly authorized and validly issued and are fully paid and non-assessable.

(xii) Authorization of Agreement. This Agreement has been duly authorized, executed and delivered by the Company.

(xiii) Authorization of the Indenture. The Indenture has been duly authorized by the Company and, when duly executed and delivered by the Company and the Trustee, will constitute a valid and binding agreement of the Company, enforceable against the Company in accordance with its terms, except as the enforcement thereof may be limited by bankruptcy, insolvency (including, without limitation, all laws relating to fraudulent transfers), reorganization, moratorium or similar laws affecting enforcement of creditors' rights generally and except as enforcement thereof is subject to general principles of equity, including the principles of good faith, commercial reasonableness and fair dealing (regardless of whether enforcement is considered in a proceeding in equity or at law).

(xiv) Authorization of the Securities and the Conversion Shares. The Securities have been duly authorized and, at the Closing Time, will have been duly executed by the Company and, when authenticated, issued and delivered in the manner provided for in the Indenture and delivered against payment of the purchase price therefor as provided in this Agreement, will constitute valid and binding obligations of the Company, enforceable against the Company in accordance with their terms, except as the enforcement thereof may be limited by bankruptcy, insolvency (including, without limitation, all laws relating to fraudulent transfers), reorganization, moratorium or similar laws affecting enforcement of creditors' rights generally and except as enforcement thereof is subject to general principles of equity, including the principles of good faith, commercial reasonableness and fair dealing (regardless of whether enforcement is considered in a proceeding in equity or at law), and will be in the form contemplated by, and entitled to the benefits of, the Indenture. The maximum number of shares of Common Stock issuable upon conversion of the Notes (including the maximum number of additional shares of Common Stock by which the Conversion Rate (as such term is defined in the Indenture) may be increased upon conversion in connection with a Make-Whole Fundamental Change (as such term is defined in the Indenture) or notice of a redemption and assuming (x) the Company satisfies the Share Reservation Condition (as such term is defined in the Indenture), (y) the Company elects, upon each conversion of the Securities, to deliver solely shares of Common Stock, other than cash in lieu of any fractional shares, in settlement of each such conversion and (z) the Initial Purchasers exercise their option to purchase the Option Securities in full (the "Maximum Number of Conversion Shares")) will be,

upon satisfaction of the Share Reservation Condition (as such term is defined in the Indenture), duly authorized and reserved for issuance upon such conversion by all necessary corporate action and such shares, when issued upon such conversion in accordance with the terms of the Indenture, will be validly issued and will be fully paid and non-assessable; and the issuance of such shares upon such conversion will not be subject to any preemptive or other similar rights of any securityholder of the Company.

(xv) Description of the Securities, the Common Stock and the Indenture. The Securities and the Indenture will conform in all material respects to the respective statements relating thereto contained in the General Disclosure Package and the Final Offering Memorandum. The Common Stock conforms to all statements relating thereto contained or incorporated by reference in the General Disclosure Package and the Final Offering Memorandum and such description conforms to the rights set forth in the instruments defining the same.

(xvi) Absence of Violations, Defaults and Conflicts. Neither the Company nor any of its subsidiaries is (A) in violation of its charter, by-laws or similar organizational document, (B) in default in the performance or observance of any obligation, agreement, covenant or condition contained in any contract, indenture, mortgage, deed of trust, loan or credit agreement, note, lease or other agreement or instrument to which the Company or any of its subsidiaries is a party or by which it or any of them may be bound or to which any of the properties or assets of the Company or any subsidiary is subject (collectively, "Agreements and Instruments"), except for such defaults that would not, singly or in the aggregate, result in a Material Adverse Effect, or (C) in violation of any law, statute, rule, regulation, judgment, order, writ or decree of any arbitrator, court, governmental body, regulatory body, administrative agency or other authority, body or agency having jurisdiction over the Company or any of its subsidiaries or any of their respective properties, assets or operations (each, a "Governmental Entity"), except for such violations that would not, singly or in the aggregate, result in a Material Adverse Effect. The execution, delivery and performance of this Agreement, and the consummation of the transactions contemplated herein and therein in the General Disclosure Package and the Final Offering Memorandum (including the issuance and sale of the Securities and the use of the proceeds from the sale of the Securities as described therein under the caption "Use of Proceeds") and compliance by the Company with its obligations hereunder have been duly authorized by all necessary corporate action and do not and will not, whether with or without the giving of notice or passage of time or both, conflict with or constitute a breach of, or default or Repayment Event (as defined below) under, or result in the creation or imposition of any lien, charge or encumbrance upon any properties or assets of the Company or any subsidiary pursuant to, the Agreements and Instruments or any law, statute, rule, regulation, judgment, order, writ or decree of any Governmental Entity (except for such conflicts, breaches, defaults or Repayment Events or liens, charges or encumbrances that would not, singly or in the aggregate, result in a Material Adverse Effect), nor will such action result in any violation of the provisions of the charter, by-laws or similar organizational document of the Company or any of its subsidiaries. As used herein, a "Repayment Event" means any event or condition which gives the holder of any note, debenture or other evidence of indebtedness (or any person acting on such holder's behalf) the right to require the repurchase, redemption or repayment of all or a portion of such indebtedness by the Company or any of its subsidiaries.

(xvii) Absence of Labor Dispute. No labor dispute with the employees of the Company or any of its subsidiaries exists or, to the knowledge of the Company, is imminent, and the Company is not aware of any existing or imminent labor disturbance by the employees of any of its or any subsidiary's principal suppliers, manufacturers, customers or contractors, which, in either case, would result in a Material Adverse Effect.

(xviii) Absence of Proceedings. Except as disclosed in the General Disclosure Package and the Final Offering Memorandum, there is no action, suit, proceeding, inquiry or investigation before or brought by any Governmental Entity now pending or, to the knowledge of the Company, threatened in writing, against or affecting the Company or any of its subsidiaries, which might result in a Material Adverse Effect, or which might materially and adversely affect their respective properties or assets or the consummation of the transactions contemplated in this Agreement or the performance by the Company of its obligations hereunder.

(xix) Absence of Further Requirements. No filing with, or authorization, approval, consent, license, order, registration, qualification or decree of, any Governmental Entity is necessary or required for the performance by the Company of its obligations hereunder, in connection with the offering, issuance or sale of the Securities hereunder or the consummation of the transactions contemplated by this Agreement or for the due execution, delivery and performance of the Indenture, except such as have been already obtained or such as may be required under the Blue Sky or similar laws of any jurisdiction in connection with the purchase and distribution of the Securities by the Initial Purchaser in the manner contemplated by this Agreement and in the Offering Memorandum and the rules and regulations of The Nasdaq Global Select Market.

(xx) Possession of Licenses and Permits. The Company and its subsidiaries possess such permits, licenses, approvals, consents and other authorizations (collectively, "Governmental Licenses") issued by the appropriate Governmental Entities necessary to conduct the business now operated by them, except where the failure so to possess would not, singly or in the aggregate, result in a Material Adverse Effect. The Company and its subsidiaries are in compliance with the terms and conditions of all Governmental Licenses, except where the failure so to comply would not, singly or in the aggregate, result in a Material Adverse Effect. All of the Governmental Licenses are valid and in full force and effect, except when the invalidity of such Governmental Licenses or the failure of such Governmental Licenses to be in full force and effect would not, singly or in the aggregate, result in a Material Adverse Effect. Neither the Company nor any of its subsidiaries has received any notice of proceedings relating to the revocation or modification of any Governmental Licenses which, singly or in the aggregate, if the subject of an unfavorable decision, ruling or finding, would result in a Material Adverse Effect.

(xxi) Title to Property. Neither the Company nor its subsidiaries own real property; and all of the leases and subleases under which the Company or any of its subsidiaries holds properties described in the General Disclosure Package and the Final Offering Memorandum, are in full force and effect, and neither the Company nor any such subsidiary has any notice of any material claim of any sort that has been asserted by anyone adverse to the rights of the Company or any subsidiary under any of the leases or subleases mentioned above, or affecting or questioning the rights of the Company or such subsidiary to the continued possession of the leased or subleased premises under any such lease or sublease.

(xxii) Possession of Intellectual Property. To the Company's knowledge, the Company and its subsidiaries own or possess adequate rights to use or can acquire on commercially reasonable terms all inventions, patents, trademarks, service marks, trade names, domain names, copyrights, licenses, technology, know-how, trade secrets and other intellectual property and proprietary or confidential information, systems or procedures (including all goodwill associated with, and all registrations and applications for registration of, the foregoing) (collectively, "Intellectual Property") material to the conduct of its businesses as currently conducted. To the Company's knowledge, the conduct of the business of the Company and its subsidiaries as currently conducted does not infringe, misappropriate or otherwise violate any Intellectual Property of others. Except as would not, individually or in the aggregate, reasonably be expected to have a Material

Adverse Effect, there is no currently pending or, to the Company's knowledge, threatened action, suit, proceeding or claim (i) challenging the Company's or any of its subsidiary's rights in or to, any of the Intellectual Property owned by the Company or any subsidiary of the Company; (ii) alleging that the Company or any of its subsidiaries has infringed, misappropriated or otherwise violated or conflicted with any Intellectual Property of any third party; or (iii) challenging the validity, scope or enforceability of any Intellectual Property registered by the Company or any of its subsidiaries, other than office actions received in the ordinary course of prosecuting and maintaining such Intellectual Property, and in the case of each of (i), (ii) and (iii), the Company is unaware of any facts which would form a reasonable basis for any such action, suit, proceeding or claim which would, individually or in the aggregate, result in a Material Adverse Effect. To the Company's knowledge and except as would not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect, (x) all finally issued registered Intellectual Property that is owned by the Company or any of its subsidiaries is not invalid or unenforceable, and (y) all registered Intellectual Property owned by the Company or a subsidiary of the Company is owned free and clear of all third-party liens.

(xxiii) Cybersecurity. Except as would not, individually or in the aggregate, result in a Material Adverse Effect, (i) the Company's and its subsidiaries' information technology assets, systems, networks and equipment (collectively, "IT Systems") are adequate for, and operate and perform as required in connection with, the operation of the business of the Company and its subsidiaries as currently conducted, and, to the Company's knowledge, are free and clear of any bugs, errors, viruses or other corruptants, (ii) the Company and its subsidiaries have implemented and maintain commercially reasonable controls, policies, procedures and safeguards designed to maintain and protect their confidential information and the integrity, operation and security of the IT Systems and personal, personally identifiable or confidential data stored therein or processed thereby, and (iii) there have been no actual or suspected breaches of, unauthorized accesses to, or other compromises of, the same.

(xxiv) Data Privacy. Except as would not, individually or in the aggregate, result in a Material Adverse Effect, the Company and its subsidiaries are in compliance with all applicable (i) laws, statutes, judgments, orders, rules and regulations of any court or arbitrator or governmental or regulatory authority, (ii) internal policies and (iii) contractual obligations, in each case, relating to the privacy or security of personal, personally identifiable, or confidential data, including those relating to the collection, use, transfer, storage, protection, disposal or disclosure thereof (collectively, "Privacy Requirements"). Except as would not, individually or in the aggregate, result in a Material Adverse Effect, neither the Company nor any of its subsidiaries has received notice of any actual or potential liability under or relating to an actual or potential violation by the Company or any of its subsidiaries of any of the Privacy Requirements.

(xxv) Environmental Laws. Except as described in the General Disclosure Package and the Final Offering Memorandum or would not, singly or in the aggregate, result in a Material Adverse Effect, (A) neither the Company nor any of its subsidiaries is in violation of any federal, state, local or foreign statute, law, rule, regulation, ordinance, code, policy or rule of common law or any judicial or administrative interpretation thereof, including any judicial or administrative order, consent, decree or judgment, relating to pollution or protection of human health, the environment (including, without limitation, ambient air, surface water, groundwater, land surface or subsurface strata) or wildlife, including, without limitation, laws and regulations relating to the release or threatened release of chemicals, pollutants, contaminants, wastes, toxic substances, hazardous substances, petroleum or petroleum products, asbestos-containing materials or mold (collectively, "Hazardous Materials") or to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials (collectively,

“Environmental Laws”), (B) the Company and its subsidiaries have all permits, authorizations and approvals required under any applicable Environmental Laws and are each in compliance with their requirements, (C) there are no pending or, to the Company’s knowledge, threatened administrative, regulatory or judicial actions, suits, demands, demand letters, claims, liens, notices of noncompliance or violation, investigation or proceedings relating to any Environmental Law against the Company or any of its subsidiaries and (D) there are no events or circumstances that would reasonably be expected to form the basis of an order for clean-up or remediation, or an action, suit or proceeding by any private party or Governmental Entity, against or affecting the Company or any of its subsidiaries relating to Hazardous Materials or any Environmental Laws.

(xxvi) Accounting Controls and Disclosure Controls. The Company and each of its subsidiaries maintain effective internal control over financial reporting (as defined under Rule 13-a15 and 15d-15 under the 1934 Act Regulations) that complies with the requirements of the Exchange Act and has been designed by the Company’s principal executive officer and principal financial officer, or under their supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with GAAP. The Company maintains a system of internal accounting controls sufficient to provide reasonable assurances that (A) transactions are executed in accordance with management’s general or specific authorization; (B) transactions are recorded as necessary to permit preparation of financial statements in conformity with GAAP and to maintain accountability for assets; (C) access to assets is permitted only in accordance with management’s general or specific authorization; (D) the recorded accountability for assets is compared with the existing assets at reasonable intervals and appropriate action is taken with respect to any differences; and (E) that the interactive data in eXtensible Business Reporting Language incorporated by reference in the General Disclosure Package and the Final Offering Memorandum fairly presents the information called for in all material respects and is prepared in accordance in all material respects with the Commission’s rules and guidelines applicable thereto. Except as described in the General Disclosure Package and the Final Offering Memorandum, since the end of the Company’s most recent audited fiscal year, there has been (1) no material weakness in the Company’s internal control over financial reporting (whether or not remediated) and (2) no change in the Company’s internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the Company’s internal control over financial reporting. The Company and each of its subsidiaries maintain an effective system of disclosure controls and procedures (as defined in Rule 13a-15 and Rule 15d-15 under the 1934 Act Regulations) that are designed to ensure that information required to be disclosed by the Company in the reports that it files or submits under the 1934 Act is recorded, processed, summarized and reported, within the time periods specified in the Commission’s rules and forms, and is accumulated and communicated to the Company’s management, including its principal executive officer or officers and principal financial officer or officers, as appropriate, to allow timely decisions regarding disclosure.

(xxvii) Compliance with the Sarbanes-Oxley Act. There is and, in the past five years, has been no failure on the part of the Company or any of the Company’s directors or officers, in their capacities as such, to comply in all material respects with any provision of the Sarbanes-Oxley Act of 2002 and the rules and regulations promulgated in connection therewith, including Section 402 related to loans and Sections 302 and 906 related to certifications.

(xxviii) Payment of Taxes. All U.S. federal income tax returns of the Company and its subsidiaries required by law to be filed have been filed and all taxes shown by such returns or otherwise assessed, which are due and payable, have been paid, except assessments against which appeals have been or will be promptly taken and as to which adequate reserves have been provided. No assessment in connection with the U.S. federal income tax returns of the Company, through the

fiscal year ended December 31, 2018, has been made against the Company. The Company and its subsidiaries have filed all other tax returns that are required to have been filed by them pursuant to applicable foreign, state, local or other law and have paid all taxes due pursuant to such returns or pursuant to any assessment received by the Company and its subsidiaries; except for such taxes, if any, as are being contested in good faith and as to which adequate reserves have been established by the Company, except, in each case, insofar as the failure to file such returns or pay such taxes was described in the General Disclosure Package and the Final Offering Memorandum or would not result in a Material Adverse Effect. The charges, accruals and reserves on the books of the Company in respect of any income and corporation tax liability for any years not finally determined are adequate to meet any assessments or reassessments for additional income tax for any years not finally determined, except to the extent of any inadequacy that was described in the General Disclosure Package and the Final Offering Memorandum or would not result in a Material Adverse Effect.

(xxix) Insurance. The Company and its subsidiaries carry or are entitled to the benefits of insurance, with financially sound and reputable insurers, in such amounts and covering such risks as is generally maintained by companies of established repute engaged in the same or similar business, and all such insurance is in full force and effect. The Company has no reason to believe that it or any of its subsidiaries will not be able (A) to renew its existing insurance coverage as and when such policies expire or (B) to obtain comparable coverage from similar institutions as may be necessary or appropriate to conduct its business as now conducted and at a cost that would not result in a Material Adverse Effect. Neither of the Company nor any of its subsidiaries has been denied any insurance coverage which it has sought or for which it has applied.

(xxx) Investment Company Act. The Company is not required, and immediately after giving effect to the issuance and sale of the Securities as herein contemplated and the application of the net proceeds therefrom as described in the General Disclosure Package and the Final Offering Memorandum will not be required, to register as an “investment company” under the Investment Company Act of 1940, as amended (the “1940 Act”).

(xxxii) Absence of Manipulation. Neither the Company nor any affiliate of the Company has taken, nor will the Company or any affiliate take, directly or indirectly, any action which is designed, or would be expected, to cause or result in, or which constitutes, a violation of Regulation M under the 1934 Act.

(xxxiii) Foreign Corrupt Practices Act. Neither the Company nor any of its subsidiaries, nor, to the knowledge of the Company, any director, officer, agent, employee or other person “associated with” (as defined in the Bribery Act 2010 of the United Kingdom, as amended (the “Bribery Act 2010”)) or acting on behalf of the Company or any of its subsidiaries, has in the course of its actions for, or on behalf of, the Company or any of its subsidiaries (i) made any unlawful contribution, gift or other unlawful expense relating to political activity; (ii) made any direct or indirect bribe, kickback, rebate, payoff, influence payment, or otherwise unlawfully provided anything of value, to any “foreign official” (as defined in the U.S. Foreign Corrupt Practices Act of 1977, as amended (the “FCPA”)) or domestic government official; or (iii) violated or is in violation of any provision of the FCPA, Bribery Act 2010 or any other applicable anti-corruption or anti-bribery statute or regulation. The Company and its subsidiaries and, to the knowledge of the Company, the Company’s affiliates, have conducted their respective businesses in compliance with the FCPA, Bribery Act 2010 and all other applicable anti-corruption and anti-bribery statutes and regulations, and have instituted and maintain policies and procedures designed to ensure, and which are reasonably expected to ensure, continued compliance therewith.

(xxxiii) Money Laundering Laws. The operations of the Company and its subsidiaries are and have been conducted at all times in compliance in all material respects with applicable financial recordkeeping and reporting requirements of the Currency and Foreign Transactions Reporting Act of 1970, as amended, the money laundering statutes of all jurisdictions, the rules and regulations thereunder and any related or similar rules, regulations or guidelines, issued, administered or enforced by any Governmental Entity (collectively, the “Money Laundering Laws”); and no action, suit or proceeding by or before any Governmental Entity involving the Company or any of its subsidiaries with respect to the Money Laundering Laws is pending or, to the best knowledge of the Company, threatened.

(xxxiv) OFAC. None of the Company, any of its subsidiaries or, to the knowledge of the Company, any director, officer, agent, employee, affiliate or representative of the Company or any of its subsidiaries is an individual or entity (“Person”) currently the subject of any sanctions administered or enforced by the United States government, including, without limitation, the U.S. Department of the Treasury’s Office of Foreign Assets Control (“OFAC”), the United Nations Security Council (“UNSC”), the European Union, Her Majesty’s Treasury (“HMT”), or other relevant sanctions authority (collectively, “Sanctions”), nor is the Company located, organized or resident in a country or territory that is the subject of Sanctions; and the Company will not directly or indirectly use the proceeds of the sale of the Securities, or lend, contribute or otherwise make available such proceeds to any subsidiaries, joint venture partners or other Person, to fund any activities of or business with any Person, or in any country or territory, that, at the time of such funding is the subject of Sanctions, to extent that it would be in violations of the Sanctions, or in any other manner that will result in a violation by any Person (including any Person participating in the transaction, whether as underwriter, advisor, investor or otherwise) of Sanctions. The Company and its subsidiaries have not knowingly engaged in for the past five years, are not now knowingly engaged in, and will not knowingly engage in, any dealings or transactions with any individual or entity, or in any country or territory, that at the time of the dealing or transaction is or was the subject of Sanctions to the extent that it would be in violations of the Sanctions.

(xxxv) Statistical and Market-Related Data. Any statistical and market-related data included in the General Disclosure Package or the Final Offering Memorandum are based on or derived from sources that the Company believes, after reasonable inquiry, to be reliable and accurate and, to the extent required, the Company has obtained the written consent to the use of such data from such sources.

(xxxvi) No Rating of Securities. Neither the Company nor its subsidiaries have any debt securities or preferred stock that are rated by any “nationally recognized statistical rating agency” (as defined in Section 3(a)(62) of the 1934 Act).

(xxxvii) Solvency. Immediately after the consummation of the issuance of the Securities, the Company will be Solvent. As used in this paragraph, the term “Solvent” means, with respect to a particular date, that on such date (i) the present fair market value (or present fair saleable value) of the assets of the Company are not less than the total amount required to pay the probable liabilities of the Company on its total existing debts and liabilities (including contingent liabilities) as they become absolute and matured, (ii) the Company is able to realize upon its assets and pay its debts and other liabilities, contingent obligations and commitments as they mature and become due in the normal course of business, (iii) assuming the sale of the Notes as contemplated by this Agreement, the General Disclosure Package and the Final Offering Memorandum, the Company is not incurring debts or liabilities beyond its ability to pay as such debts and liabilities mature, and (iv) the Company is not engaged in any business or transaction, and is not about to engage in any business or transaction, for which its property would reasonably be expected to constitute

unreasonably small capital after giving due consideration to the prevailing practice in the industry in which the Company is engaged. In computing the amount of such contingent liabilities at any time, it is intended that such liabilities will be computed at the amount that, in the light of all the facts and circumstances existing at such time, represents the amount that can reasonably be expected to become an actual or matured liability.

(xxxviii) Federal Reserve System. None of the transactions contemplated by this Agreement (including, without limitation, the use of the proceeds from the sale of the Notes), will violate or result in a violation of Section 7 of the Exchange Act, or any regulation promulgated thereunder, including, without limitation, Regulations T, U and X of the Board of Governors of the Federal Reserve System.

(xxxix) Accurate Summary. The statements set forth in each of the General Disclosure Package and the Final Offering Memorandum under the caption “Description of Notes,” insofar as they purport to constitute a summary of the terms of the Notes and under the caption “Certain U.S. Federal Income Tax Considerations,” insofar as they purport to summarize the provisions of the laws and documents referred to therein, are accurate summaries in all material respects.

(xl) Forward-looking Statements. No forward-looking statement (within the meaning of Section 27A of the Securities Act and Section 21E of the Exchange Act) included or incorporated by reference in any of the General Disclosure Package or the Final Offering Memorandum has been made or reaffirmed without a reasonable basis or has been disclosed other than in good faith.

(b) Officer’s Certificates. Any certificate signed by any officer of the Company or any of its subsidiaries delivered to the Representative or to counsel for the Initial Purchasers shall be deemed a representation and warranty by the Company to each Initial Purchaser as to the matters covered thereby.

## SECTION 2. Sale and Delivery to Initial Purchasers; Closing.

(a) Initial Securities. On the basis of the representations and warranties herein contained and subject to the terms and conditions herein set forth, the Company agrees to sell to each Initial Purchaser, severally and not jointly, and each Initial Purchaser, severally and not jointly, agrees to purchase from the Company, at the price set forth in Schedule A, the aggregate principal amount of Initial Securities set forth in Schedule A, plus any additional principal amount of Initial Securities which such Initial Purchaser may become obligated to purchase pursuant to the provisions of Section 11 hereof, subject to such adjustments as Barclays in its discretion shall make to ensure that any sales or purchases are in authorized denominations.

(b) Option Securities. In addition, on the basis of the representations and warranties herein contained and subject to the terms and conditions herein set forth, the Company hereby grants an option to the Initial Purchasers, severally and not jointly, to purchase the Option Securities, at the price set forth in Schedule A. The option hereby granted may be exercised for 13 days after the date hereof and may be exercised in whole or in part from time to time upon notice by the Representative to the Company setting forth the amount of Option Securities as to which the several Initial Purchasers are then exercising the option and the time and date of payment and delivery for such Option Securities. Any such time and date of delivery (a “Date of Delivery”) shall be determined by the Representative, but shall not be later than seven full business days after the exercise of said option, nor in any event prior to the Closing Time. If the option is exercised as to all or any portion of the Option Securities, each of the Initial Purchasers, acting severally and not jointly, will purchase that proportion of the total principal amount of Option Securities then being purchased which the number of Initial Securities set forth in Schedule A opposite the name of such Initial Purchaser bears to the total principal amount of Initial Securities, subject in each case to such adjustments as Barclays in its discretion shall make to ensure that any sales or purchases are in authorized denominations.

(c) *Payment.* Payment of the purchase price for, and delivery of certificates or security entitlements for, the Initial Securities shall be made at the offices of Davis Polk & Wardwell LLP, 1600 El Camino Real, Menlo Park, California 94025, or at such other place as shall be agreed upon by the Representative and the Company, at 10:30 a.m. (New York City time) on the third business day after the date hereof (unless postponed in accordance with the provisions of Section 11), or such other time not later than ten business days after such date as shall be agreed upon by the Representative and the Company (such time and date of payment and delivery being herein called “Closing Time”).

In addition, in the event that any or all of the Option Securities are purchased by the Initial Purchasers, payment of the purchase price for, and delivery of certificates or security entitlements for, such Option Securities shall be made at the above-mentioned offices, or at such other place as shall be agreed upon by the Representative and the Company, on each Date of Delivery as specified in the notice from Barclays to the Company.

Payment shall be made to the Company by wire transfer of immediately available funds to a bank account designated by the Company, against delivery to the Representative for the respective accounts of the Initial Purchasers of certificates or security entitlements for the Securities to be purchased by them. It is understood that each Initial Purchaser has authorized the Representative, for its account, to accept delivery of, receipt for, and make payment of the purchase price for, the Initial Securities and the Option Securities, if any, which it has agreed to purchase. Barclays, individually and not as representative of the Initial Purchasers, may (but shall not be obligated to) make payment of the purchase price for the Initial Securities or the Option Securities, if any, to be purchased by any Initial Purchaser whose funds have not been received by the Closing Time or the relevant Date of Delivery, as the case may be, but such payment shall not relieve such Initial Purchaser from its obligations hereunder.

SECTION 3. Covenants of the Company. The Company covenants with each Initial Purchaser as follows:

(a) *Delivery of Offering Memorandum.* The Company has delivered to each Initial Purchaser, without charge, as many copies of the Preliminary Offering Memorandum (as amended or supplemented) thereto and documents incorporated by reference therein as such Initial Purchaser reasonably requested, and the Company hereby consents to the use of such copies. The Company will furnish to each Initial Purchaser, without charge, such number of copies of the Final Offering Memorandum thereto and documents incorporated by reference therein as such Initial Purchaser may reasonably request.

(b) *Notice and Effect of Material Events.* If at any time prior to the completion of resales of the Securities by the Initial Purchasers, any event shall occur or condition shall exist as a result of which it is necessary, in the opinion of counsel for the Initial Purchasers or for the Company, to amend or supplement the General Disclosure Package or the Final Offering Memorandum in order that the General Disclosure Package or the Final Offering Memorandum, as the case may be, will not include any untrue statement of a material fact or omit to state a material fact necessary in order to make the statements therein not misleading in the light of the circumstances existing at the time it is delivered to a Subsequent Purchaser, the Company will promptly (A) give the Representative notice of such event and (B) prepare any amendment or supplement as may be necessary to correct such statement or omission and, a reasonable amount of time prior to any proposed use or distribution, furnish the Representative with copies of any such amendment or supplement; provided that the Company shall not use or distribute any such amendment or supplement to which the Representative or counsel for the Initial Purchasers shall object. The Company will furnish to the Initial Purchasers such number of copies of such amendment or supplement as the Initial Purchasers may reasonably request.

(c) *Reporting Requirements.* Until the completion of resales of the Securities by the Initial Purchasers, the Company will file all documents required to be filed with the Commission pursuant to the 1934 Act within the time periods required by the 1934 Act and the 1934 Act Regulations. The Company has given the Representative notice of any filings made pursuant to the 1934 Act or 1934 Act Regulations within 48 hours prior to the Applicable Time; the Company will give the Representative notice of its intention to make any such filing from the Applicable Time to the Closing Time and will furnish the Representative with copies of any such documents a reasonable amount of time prior to such proposed filing, as the case may be, and will not file or use any such document to which the Representative or counsel for the Initial Purchasers shall reasonably object, except as required by applicable law.

(d) *Blue Sky Qualifications.* The Company will use its commercially reasonable efforts, in cooperation with the Initial Purchasers, to qualify the Securities for offering and sale under the applicable securities laws of such states and other jurisdictions (domestic or foreign) as the Representative may designate and to maintain such qualifications in effect so long as required to complete the distribution of the Securities; provided, however, that the Company shall not be obligated to file any general consent to service of process or to qualify as a foreign corporation or as a dealer in securities in any jurisdiction in which it is not so qualified or to subject itself to taxation in respect of doing business in any jurisdiction in which it is not otherwise so subject.

(e) *Use of Proceeds.* The Company will use the net proceeds received by it from the sale of the Securities in the manner specified in the General Disclosure Package and the Final Offering Memorandum under "Use of Proceeds."

(f) *DTCC.* The Company will cooperate with the Initial Purchasers and use its commercially reasonable efforts to permit the offered Securities to be eligible for clearance and settlement through the facilities of The Depository Trust & Clearing Corporation ("DTCC").

(g) *Listing.* The Company will use its commercially reasonable efforts to effect and maintain the listing of the Conversion Shares on The Nasdaq Global Select Market.

(h) *Restriction on Sale of Securities.* For a period commencing on the date hereof and ending on the 90th day after the date of the Final Offering Memorandum, the Company agrees not to, directly or indirectly, (i) offer for sale, sell or otherwise dispose of (or enter into any transaction or device that is designed to, or would be expected to, result in the disposition by any person at any time in the future of) any shares of Common Stock or securities convertible into or exchangeable for shares of Common Stock, or sell or grant options, rights or warrants with respect to any shares of Common Stock or securities convertible into or exchangeable for shares of Common Stock, (ii) enter into any swap or other derivatives transaction that transfers to another, in whole or in part, any of the economic benefits or risks of ownership of such shares of Common Stock, whether any such transaction described in clause (i) or (ii) above is to be settled by delivery of Common Stock or other securities, in cash or otherwise, (iii) file or cause to be filed a registration statement, including any amendments, with respect to the registration of Common Stock or securities convertible, exercisable or exchangeable into Common Stock or (iv) publicly disclose the intention to do any of the foregoing, in each case without the prior written consent of the Representative, on behalf of the Initial Purchasers, and to cause each officer and director of the Company set forth on Schedule D hereto to furnish to the Representative, prior to the date of this Agreement, a letter or letters, substantially in the form of Exhibit A hereto (the "Lock-Up Agreements"). The foregoing sentence shall not apply to (A) the Securities to be sold hereunder or any Conversion Shares, (B) any shares of Common Stock issued by the Company upon the exercise of an option or warrant, the vesting and settlement of any

restricted stock unit or the conversion of a security outstanding on the date hereof and referred to in the General Disclosure Package and the Final Offering Memorandum, (C) any shares of Common Stock issued or options to purchase Common Stock or restricted stock units granted pursuant to existing employee benefit plans of the Company referred to in the General Disclosure Package and the Final Offering Memorandum, (D) any shares of Common Stock issued pursuant to any non-employee director stock plan or dividend reinvestment plan referred to in the General Disclosure Package and the Final Offering Memorandum, (E) any registration statement on Form S-8 covering securities referred to in clauses (C) and (D) above, (F) the entry into any agreement providing for the issuance by the Company of shares of Common Stock or any security convertible into or exercisable for shares of Common Stock in connection with the acquisition by the Company or any of its subsidiaries of the securities, business, property or other assets of another person or entity or pursuant to an employee benefit plan assumed by the Company in connection with such acquisition, and the issuance of any such securities pursuant to any such agreement, or (G) the entry into any agreement providing for the issuance of shares of Common Stock or any security convertible into or exercisable for shares of Common Stock in connection with joint ventures, commercial relationships or other strategic transactions, and the issuance of any such securities pursuant to any such agreement; *provided*, that in the case of clauses (F) and (G), the aggregate number of shares of Common Stock that the Company may sell or issue or agree to sell or issue pursuant to clauses (F) and (G) shall not exceed 5% of the total number of shares of Common Stock issued and outstanding immediately following the completion of the transactions contemplated by this Agreement and *provided further* that each recipient of shares of Common Stock pursuant to clauses (F) or (G) shall, on or prior to such issuance, execute a lock-up agreement substantially in the form of Exhibit A hereto.

(i) *Reservation of Conversion Shares.* Upon satisfaction of the Share Reservation Condition (as such term is defined in the Indenture), the Company agrees to reserve and keep available at all times, free of preemptive rights, a number of shares of Conversion Shares equal to the Maximum Number of Conversion Shares to enable the Company to satisfy any obligations to issue Conversion Shares upon conversion of the Securities.

(j) *Loan Agreement Termination.* All amounts outstanding under the Amended and Restated Loan and Security Agreement, dated December 18, 2017 (as amended, the “Loan Agreement”), by and among Silicon Valley Bank, the Company and Harmonic International AG, shall have been repaid by the Company and the Loan Agreement shall have been terminated (with satisfactory evidence of the foregoing delivered to the Initial Purchasers).

(k) *No General Solicitations.* In connection with any offer or sale of the Securities, the Company will not engage, and will cause its affiliates and any person acting on its behalf (other than, in any case, the Initial Purchasers and any of their affiliates, as to whom the Company make no covenant) not to engage in any form of general solicitation or general advertising (within the meaning of Regulation D) or any public offering within the meaning of Section 4(a)(2) of the Securities Act in connection with any offer or sale of the Securities.

(l) *FinCEN Certification.* The Company will deliver to each Initial Purchaser (or its agent), on or prior to the date of execution of this Agreement, a properly completed and executed Certification Regarding Beneficial Owners of Legal Entity Customers or applicable exemption certificate (the “FinCEN Certification”), together with copies of identifying documentation, of the Company and the Company undertakes to provide such additional supporting documentation as each Initial Purchaser may reasonably request in connection with the verification of the FinCEN Certification.

#### SECTION 4. Payment of Expenses.

(a) *Expenses.* The Company will pay or cause to be paid all expenses incident to the performance of their obligations under this Agreement, including (i) preparation, issuance and delivery of the Securities to the Initial Purchasers and the Common Stock issuable upon conversion thereof and any charges of DTCC in connection therewith, (ii) the fees and disbursements of the Company's counsel, accountants and other advisors, (iii) the qualification of the Securities under securities laws in accordance with the provisions of Section 3(d) hereof, including filing fees and the reasonable fees and disbursements of counsel for the Initial Purchasers in connection therewith and in connection with the preparation of the Blue Sky Survey and any supplement thereto; *provided* that any such filing fees or disbursements do not exceed \$10,000, (iv) the preparation, printing and delivery to the Initial Purchasers of copies of each Preliminary Offering Memorandum, any Issuer Written Information, the Final Term Sheet and the Final Offering Memorandum and any amendments or supplements thereto and any costs associated with electronic delivery of any of the foregoing by the Initial Purchasers to investors, (v) all fees and expenses of the Trustee and any expenses of any transfer agent or registrar for the Securities or the Conversion Shares, (vi) the costs and expenses of the Company relating to investor presentations on any "road show" undertaken in connection with the marketing of the Securities, including without limitation, and expenses associated with the production of road show slides and graphics, (vii) the fees and expenses incurred in connection with the listing of the Conversion Shares on The Nasdaq Global Select Market and (viii) the costs and expenses (including, without limitation, any damages or other amounts payable in connection with legal or contractual liability) associated with the reforming of any contracts for sale of the Securities made by the Initial Purchasers caused by a breach of the representation contained in the first sentence of Section 1(a) (iii).

(b) *Termination of Agreement.* If this Agreement is terminated by the Representative in accordance with the provisions of Section 5, Section 10(a) (i) or (iii) or Section 11 hereof, the Company shall reimburse the Initial Purchasers for all of their out-of-pocket expenses, including the reasonable fees and disbursements of counsel for the Initial Purchasers.

SECTION 5. Conditions of Initial Purchasers' Obligations. The obligations of the several Initial Purchasers hereunder are subject to the accuracy of the representations and warranties of the Company contained herein or in certificates of any officer of the Company or any of its subsidiaries, to the performance by the Company of its covenants and other obligations hereunder, and to the following further conditions:

(a) *Opinion of Counsel for Company.* At the Closing Time, the Representative shall have received the favorable opinion, dated the Closing Time, of Wilson Sonsini Goodrich & Rosati Professional Corporation, counsel for the Company, in form and substance satisfactory to counsel for the Initial Purchasers, together with signed or reproduced copies of such letter for each of the other Initial Purchasers to the effect set forth in Exhibit B hereto.

(b) *Opinion of Counsel for Initial Purchasers.* At the Closing Time, the Representative shall have received the favorable opinion, dated the Closing Time, of Davis Polk & Wardwell LLP, counsel for the Initial Purchasers, together with signed or reproduced copies of such letter for each of the other Initial Purchasers in form and substance satisfactory to the Representative.

(c) *Officer's Certificate.* At the Closing Time, there shall not have been, since the date hereof or since the respective dates as of which information is given in the General Disclosure Package or the Final Offering Memorandum, any Material Adverse Effect, and the Representative shall have received a certificate of the Chief Executive Officer or Chief Financial Officer of the Company, dated the Closing Time, to the effect that (i) there has been no such Material Adverse Effect, (ii) the representations and warranties of the Company in this Agreement are true and correct with the same force and effect as though expressly made at and as of the Closing Time and (iii) the Company has complied with all agreements and satisfied all conditions on its part to be performed or satisfied at or prior to the Closing Time.

(d) *Accountant's Comfort Letter.* At the time of the execution of this Agreement, the Representative shall have received from Armanino LLP a letter, dated such date, in form and substance satisfactory to the Representative, together with signed or reproduced copies of such letter for each of the other Initial Purchasers containing statements and information of the type ordinarily included in accountants' "comfort letters" to underwriters with respect to the financial statements and certain financial information contained in the Offering Memorandum.

(e) *Historical Accountant's Comfort Letter.* At the time of the execution of this Agreement, the Representative shall have received from PricewaterhouseCoopers LLP a letter, dated such date, in form and substance satisfactory to the Representative, together with signed or reproduced copies of such letter for each of the other Initial Purchasers containing statements and information of the type ordinarily included in accountants' "comfort letters" to underwriters with respect to the financial statements and certain financial information contained in the Offering Memorandum.

(f) *Accountant's Bring-down Comfort Letter.* At the Closing Time, the Representative shall have received from Armanino LLP a letter, dated as of the Closing Time, to the effect that they reaffirm the statements made in the letter furnished pursuant to subsection (d) of this Section, except that the specified date referred to shall be a date not more than three business days prior to the Closing Time.

(g) *Historical Accountant's Bring-down Comfort Letter.* At the Closing Time, the Representative shall have received from PricewaterhouseCoopers LLP a letter, dated as of the Closing Time, to the effect that they reaffirm the statements made in the letter furnished pursuant to subsection (e) of this Section, except that the specified date referred to shall be a date not more than three business days prior to the Closing Time.

(h) *Approval of Listing.* At the Closing Time, the Conversion Shares shall have been approved for listing on The Nasdaq Global Select Market, subject only to official notice of issuance.

(i) *Lock-up Agreements.* At the date of this Agreement, the Representative shall have received an agreement substantially in the form of Exhibit A hereto signed by the persons listed on Schedule D hereto.

(j) *Conditions to Purchase of Option Securities.* In the event that the Initial Purchasers exercise their option provided in Section 2(b) hereof to purchase all or any portion of the Option Securities and such Option Securities will be delivered at a Date of Delivery other than the Closing Time, the representations and warranties of the Company contained herein and the statements in any certificates furnished by the Company and any of its subsidiaries hereunder shall be true and correct as of each Date of Delivery and, at the relevant Date of Delivery, the Representative shall have received such documents, not inconsistent with those to be delivered at the Closing Time, as the Representative may require, including:

(i) Officer's Certificate. A certificate, dated such Date of Delivery, of the Chief Executive Officer or the Chief Financial Officer of the Company confirming that the certificate delivered at the Closing Time pursuant to Section 5(c) hereof remains true and correct in all material respects as of such Date of Delivery.

(ii) Opinion of Counsel for Company. The favorable opinion of Wilson Sonsini Goodrich & Rosati Professional Corporation, counsel for the Company, in form and substance satisfactory to counsel for the Initial Purchasers, dated such Date of Delivery, relating to the Option Securities to be purchased on such Date of Delivery and otherwise to the same effect as the opinion required by Section 5(a) hereof.

(iii) Opinion of Counsel for Initial Purchasers. The favorable opinion of Davis Polk & Wardwell LLP, counsel for the Initial Purchasers, dated such Date of Delivery, relating to the Option Securities to be purchased on such Date of Delivery and otherwise to the same effect as the opinion required by Section 5(b) hereof.

(iv) Accountant's Bring-down Comfort Letter. A letter from Armanino LLP, in form and substance satisfactory to the Representative and dated such Date of Delivery, substantially in the same form and substance as the letter furnished to the Representative pursuant to Section 5(d) hereof, except that the "specified date" in the letter furnished pursuant to this paragraph shall be a date not more than three business days prior to such Date of Delivery.

(v) Historical Accountant's Bring-down Comfort Letter. A letter from PricewaterhouseCoopers LLP, in form and substance satisfactory to the Representative and dated such Date of Delivery, substantially in the same form and substance as the letter furnished to the Representative pursuant to Section 5(e) hereof, except that the "specified date" in the letter furnished pursuant to this paragraph shall be a date not more than three business days prior to such Date of Delivery.

(k) Additional Documents. At the Closing Time and at each Date of Delivery (if any), counsel for the Initial Purchasers shall have been furnished with such documents and opinions as they may require for the purpose of enabling them to pass upon the issuance and sale of the Securities as herein contemplated, or in order to evidence the accuracy of any of the representations or warranties, or the fulfillment of any of the conditions, herein contained; and all proceedings taken by the Company in connection with the issuance and sale of the Securities as herein contemplated shall be satisfactory in form and substance to the Representative and counsel for the Initial Purchasers.

(l) Termination of Agreement. If any condition specified in this Section shall not have been fulfilled when and as required to be fulfilled, this Agreement, or, in the case of any condition to the purchase of Option Securities on a Date of Delivery which is after the Closing Time, the obligations of the several Initial Purchasers to purchase the relevant Option Securities, may be terminated by the Representative by notice to the Company at any time at or prior to Closing Time or such Date of Delivery, as the case may be, and such termination shall be without liability of any party to any other party except as provided in Section 4 and except that Sections 1, 7, 8, 9, 14, 15, 16 and 17 shall survive any such termination and remain in full force and effect.

#### SECTION 6. Subsequent Offers and Resales of the Securities.

(a) Offer and Sale Procedures. Each of the Initial Purchasers and the Company hereby establish and agree to observe the following procedures in connection with the offer and sale of the Securities:

(i) Offers and Sales. Offers and sales of the Securities shall be made to such persons and in such manner as is contemplated by the Offering Memorandum. Each Initial Purchaser severally agrees that it will not offer, sell or deliver any of the Securities in any jurisdiction outside the United States except under circumstances that will result in compliance with the applicable laws thereof, and that it will take at its own expense whatever action is required to permit its purchase and resale of the Securities in such jurisdictions. The Company has not entered into any contractual arrangement, other than this Agreement, with respect to the distribution of the Securities or the Common Stock issuable upon conversion of the Securities and the Company will not enter into any such arrangement except as contemplated thereby.

(ii) No General Solicitation. No general solicitation or general advertising (within the meaning of Rule 502(c) under the 1933 Act Regulations) will be used in the United States in connection with the offering or sale of the Securities.

(iii) Legends. Each of the Securities will bear, to the extent applicable, the legend contained in “Notice to Investors” in the General Disclosure Package and the Final Offering Memorandum for the time period and upon the other terms stated therein.

(iv) Minimum Principal Amount. No sale of the Securities to any one Subsequent Purchaser will be for less than U.S. \$1,000 principal amount and no Security will be issued in a smaller principal amount.

(b) *Covenants of the Company*. The Company covenants with each Initial Purchaser as follows:

(i) Integration. The Company agrees that it will not and will cause its Affiliates not to, directly or indirectly, solicit any offer to buy, sell or make any offer or sale of, or otherwise negotiate in respect of, securities of the Company of any class if, as a result of the doctrine of “integration” referred to in Rule 502 under the 1933 Act Regulations, such offer or sale would render invalid (for the purpose of (i) the sale of the offered Securities by the Company to the Initial Purchasers, (ii) the resale of the offered Securities by the Initial Purchasers to Subsequent Purchasers or (iii) the resale of the offered Securities by such Subsequent Purchasers to others) the exemption from the registration requirements of the 1933 Act provided by Section 4(a)(2) thereof or by Rule 144A thereunder or otherwise.

(ii) Rule 144A Information. The Company agrees that so long as any of the Securities or the Conversion Shares constitute “restricted securities” within the meaning of Rule 144A(a)(3), in order to render the offered Securities eligible for resale pursuant to Rule 144A, it will, upon request, make available to the Initial Purchasers and to any holder of offered Securities or prospective purchasers of Securities the information specified in Rule 144A(d)(4), unless the Company furnishes information to the Commission pursuant to Section 13 or 15(d) of the 1934 Act.

(iii) Restriction on Repurchases. Until one year following the last original issuance of the Securities, the Company will not, and will cause its Affiliates not to, resell any offered Securities which are “restricted securities” (as such term is defined under Rule 144(a)(3)), whether as beneficial owner or otherwise (except as agent acting as a securities broker on behalf of and for the account of customers in the ordinary course of business in unsolicited broker’s transactions).

(c) *Representations, Warranties and Agreements of the Initial Purchasers*. Each Initial Purchaser severally and not jointly represents and warrants to, and agrees with, the Company that it is a Qualified Institutional Buyer and an “accredited investor” within the meaning of Rule 501(a) under the 1933 Act Regulations. Each Initial Purchaser understands that the offered Securities have not been and will not be registered under the 1933 Act and may not be offered or sold except pursuant to an exemption from, or in a transaction not subject to, the registration requirements of the 1933 Act. Each Initial Purchaser severally represents and agrees that it has not offered or sold, and will not offer or sell, any offered Securities constituting part of its allotment except in accordance with Rule 144A or another applicable exemption from the registration requirements of the 1933 Act. Accordingly, neither it nor any person acting on its behalf has made or will make offers or sales of the Securities by means of any form of general solicitation or general advertising (within the meaning of Regulation D). Each Initial Purchaser will take reasonable

steps to inform, and cause each of its affiliates (as such term is defined in Rule 501(b) under the 1933 Act Regulations (each, an “Affiliate”)) to take reasonable steps to inform, persons acquiring Securities from such Initial Purchaser or Affiliate, as the case may be, that the Securities (A) have not been and will not be registered under the 1933 Act, (B) are being sold to them without registration under the 1933 Act in reliance on Rule 144A or in accordance with another exemption from registration under the 1933 Act, as the case may be, and (C) may not be offered, sold or otherwise transferred except (1) to the Company or (2) (x) in accordance with Rule 144A to a person whom the seller reasonably believes is a Qualified Institutional Buyer that is purchasing such Securities for its own account or for the account of a Qualified Institutional Buyer to whom notice is given that the offer, sale or transfer is being made in reliance on Rule 144A or (y) pursuant to another available exemption from registration under the 1933 Act.

#### SECTION 7. Indemnification.

(a) *Indemnification of Initial Purchasers.* The Company agrees to indemnify and hold harmless each Initial Purchaser, its Affiliates, its selling agents and each person, if any, who controls any Initial Purchaser within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act as follows:

(i) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, arising out of any untrue statement or alleged untrue statement of a material fact included in any Preliminary Offering Memorandum, the Final Offering Memorandum, the information contained in the Final Term Sheet, any Issuer Written Information or any other information used by or on behalf of the Company in connection with the offer or sale of the Securities (or any amendment or supplement to the foregoing) or the omission or alleged omission therefrom of a material fact necessary in order to make the statements therein, in the light of the circumstances under which they were made, not misleading;

(ii) against any and all loss, liability, claim, damage and expense whatsoever, as incurred, to the extent of the aggregate amount paid in settlement of any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or of any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission; provided that (subject to Section 7(d) below) any such settlement is effected with the written consent of the Company except as otherwise provided herein;

(iii) against any and all expense whatsoever, as incurred (including the fees and disbursements of counsel chosen by Barclays), reasonably incurred in investigating, preparing or defending against any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever based upon any such untrue statement or omission, or any such alleged untrue statement or omission, to the extent that any such expense is not paid under (i) or (ii) above;

provided, however, that this indemnity agreement shall not apply to any loss, liability, claim, damage or expense to the extent arising out of any untrue statement or omission or alleged untrue statement or omission made in any Preliminary Offering Memorandum, the Final Offering Memorandum or the information contained in the Final Term Sheet (or any amendment or supplement to the foregoing) in reliance upon and in conformity with the Initial Purchaser Information. The foregoing indemnity agreement is in addition to any liability that the Company may otherwise have to any Initial Purchaser or to any affiliate, director, officer, employee or controlling person of that Initial Purchaser.

(b) *Indemnification of Company, Directors and Officers.* Each Initial Purchaser severally agrees to indemnify and hold harmless the Company, its directors, its officers and each person, if any, who controls the Company within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act,

against any and all loss, liability, claim, damage and expense described in the indemnity contained in subsection (a) of this Section, as incurred, but only with respect to untrue statements or omissions, or alleged untrue statements or omissions, made in any Preliminary Offering Memorandum, the Final Offering Memorandum or the information contained in the Final Term Sheet (or any amendment or supplement to the foregoing) in reliance upon and in conformity with the Initial Purchaser Information.

(c) *Actions against Parties; Notification.* Each indemnified party shall give notice as promptly as reasonably practicable to each indemnifying party of any action commenced against it in respect of which indemnity may be sought hereunder, but failure to so notify an indemnifying party shall not relieve such indemnifying party from any liability hereunder to the extent it is not materially prejudiced as a result thereof and in any event shall not relieve it from any liability which it may have otherwise than on account of this indemnity agreement. In the case of parties indemnified pursuant to Section 7(a) above, counsel to the indemnified parties shall be selected by Barclays, and, in the case of parties indemnified pursuant to Section 7(b) above, counsel to the indemnified parties shall be selected by the Company. An indemnifying party may participate at its own expense in the defense of any such action; provided, however, that counsel to the indemnifying party shall not (except with the consent of the indemnified party) also be counsel to the indemnified party. In no event shall the indemnifying parties be liable for fees and expenses of more than one counsel (in addition to any local counsel) separate from their own counsel for all indemnified parties in connection with any one action or separate but similar or related actions in the same jurisdiction arising out of the same general allegations or circumstances. No indemnifying party shall, without the prior written consent of the indemnified parties, settle or compromise or consent to the entry of any judgment with respect to any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever in respect of which indemnification or contribution could be sought under this Section 7 or Section 8 hereof (whether or not the indemnified parties are actual or potential parties thereto), unless such settlement, compromise or consent (i) includes an unconditional release of each indemnified party from all liability arising out of such litigation, investigation, proceeding or claim and (ii) does not include a statement as to or an admission of fault, culpability or a failure to act by or on behalf of any indemnified party.

(d) *Settlement without Consent if Failure to Reimburse.* If at any time an indemnified party shall have requested an indemnifying party to reimburse the indemnified party for fees and expenses of counsel, such indemnifying party agrees that it shall be liable for any settlement of the nature contemplated by Section 7(a)(ii) effected without its written consent if (i) such settlement is entered into more than 60 days after receipt by such indemnifying party of the aforesaid request, (ii) such indemnifying party shall have received notice of the terms of such settlement at least 45 days prior to such settlement being entered into and (iii) such indemnifying party shall not have reimbursed such indemnified party in accordance with such request prior to the date of such settlement.

SECTION 8. Contribution. If the indemnification provided for in Section 7 hereof is for any reason unavailable to or insufficient to hold harmless an indemnified party in respect of any losses, liabilities, claims, damages or expenses referred to therein, then each indemnifying party shall contribute to the aggregate amount of such losses, liabilities, claims, damages and expenses incurred by such indemnified party, as incurred, (i) in such proportion as is appropriate to reflect the relative benefits received by the Company, on the one hand, and the Initial Purchasers, on the other hand, from the offering of the Securities pursuant to this Agreement or (ii) if the allocation provided by clause (i) is not permitted by applicable law, in such proportion as is appropriate to reflect not only the relative benefits referred to in clause (i) above but also the relative fault of the Company, on the one hand, and of the Initial Purchasers, on the other hand, in connection with the statements or omissions which resulted in such losses, liabilities, claims, damages or expenses, as well as any other relevant equitable considerations.

The relative benefits received by the Company, on the one hand, and the Initial Purchasers, on the other hand, in connection with the offering of the Securities pursuant to this Agreement shall be deemed to be in the same respective proportions as the total net proceeds from the offering of the Securities pursuant to this Agreement (before deducting expenses) received by the Company, on the one hand, and the total underwriting discount received by the Initial Purchasers, on the other hand, bear to the aggregate initial offering price of the Securities as set forth on the cover of the Final Offering Memorandum.

The relative fault of the Company, on the one hand, and the Initial Purchasers, on the other hand, shall be determined by reference to, among other things, whether any such untrue or alleged untrue statement of a material fact or omission or alleged omission to state a material fact relates to information supplied by the Company or by the Initial Purchasers and the parties' relative intent, knowledge, access to information and opportunity to correct or prevent such statement or omission.

The Company and the Initial Purchasers agree that it would not be just and equitable if contribution pursuant to this Section 8 were determined by pro rata allocation (even if the Initial Purchasers were treated as one entity for such purpose) or by any other method of allocation which does not take account of the equitable considerations referred to above in this Section 8. The aggregate amount of losses, liabilities, claims, damages and expenses incurred by an indemnified party and referred to above in this Section 8 shall be deemed to include any legal or other expenses reasonably incurred by such indemnified party in investigating, preparing or defending against any litigation, or any investigation or proceeding by any governmental agency or body, commenced or threatened, or any claim whatsoever based upon any such untrue or alleged untrue statement or omission or alleged omission.

Notwithstanding the provisions of this Section 8, no Initial Purchaser shall be required to contribute any amount in excess of the amount by which the total price at which the Securities purchased by it and distributed to the public were offered to the public exceeds the amount of any damages that such Initial Purchaser has otherwise been required to pay by reason of any such untrue or alleged untrue statement or omission or alleged omission. The Initial Purchasers' obligations to contribute as provided in this Section 8 are several in proportion to their respective purchase obligations and not joint.

No person guilty of fraudulent misrepresentation (within the meaning of Section 11(f) of the 1933 Act) shall be entitled to contribution from any person who was not guilty of such fraudulent misrepresentation.

For purposes of this Section 8, each person, if any, who controls an Initial Purchaser within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act and each Initial Purchaser's Affiliates and selling agents shall have the same rights to contribution as such Initial Purchaser, and each director of the Company, each officer of the Company, and each person, if any, who controls the Company within the meaning of Section 15 of the 1933 Act or Section 20 of the 1934 Act shall have the same rights to contribution as the Company. The Initial Purchasers' respective obligations to contribute pursuant to this Section 8 are several in proportion to the aggregate principal amount of Initial Securities set forth opposite their respective names in Schedule A hereto and not joint.

**SECTION 9. Representations, Warranties and Agreements to Survive.** All representations, warranties and agreements contained in this Agreement or in certificates of officers of the Company or any of its subsidiaries submitted pursuant hereto, shall remain operative and in full force and effect regardless of (i) any investigation made by or on behalf of any Initial Purchaser or its Affiliates or selling agents, any person controlling any Initial Purchaser, its officers or directors or any person controlling the Company and (ii) delivery of and payment for the Securities.

SECTION 10. Termination of Agreement.

(a) *Termination.* The Representative may terminate this Agreement, by notice to the Company, at any time at or prior to the Closing Time (i) if there has been, in the judgment of the Representative, since the time of execution of this Agreement or since the respective dates as of which information is given in the General Disclosure Package or the Final Offering Memorandum, any material adverse change in the condition, financial or otherwise, or in the earnings, business affairs or business prospects of the Company and its subsidiaries considered as one enterprise, whether or not arising in the ordinary course of business, or (ii) if there has occurred any material adverse change in the financial markets in the United States or the international financial markets, any outbreak of hostilities or escalation thereof or other calamity or crisis or any change or development involving a prospective change in national or international political, financial or economic conditions, in each case the effect of which is such as to make it, in the judgment of the Representative, impracticable or inadvisable to proceed with the completion of the offering or to enforce contracts for the sale of the Securities, or (iii) if trading in any securities of the Company has been suspended or materially limited by the Commission or The Nasdaq Global Select Market, or (iv) if trading generally on the NYSE MKT or the New York Stock Exchange or in The Nasdaq Global Select Market has been suspended or materially limited, or minimum or maximum prices for trading have been fixed, or maximum ranges for prices have been required, by any of said exchanges or by order of the Commission or any other governmental authority, or (v) a material disruption has occurred in commercial banking or securities settlement or clearance services in the United States, or (vi) if a banking moratorium has been declared by either Federal or New York authorities.

(b) *Liabilities.* If this Agreement is terminated pursuant to this Section, such termination shall be without liability of any party to any other party except as provided in Section 4 hereof, and provided further that Sections 1, 7, 8, 9, 14, 15, 16 and 17 shall survive such termination and remain in full force and effect.

SECTION 11. Default by One or More of the Initial Purchasers. If one or more of the Initial Purchasers shall fail at the Closing Time or a Date of Delivery to purchase the Securities which it or they are obligated to purchase under this Agreement (the "Defaulted Securities"), the Representative shall have the right, within 24 hours thereafter, to make arrangements for one or more of the non-defaulting Initial Purchasers, or any other initial purchasers, to purchase all, but not less than all, of the Defaulted Securities in such amounts as may be agreed upon and upon the terms herein set forth; if, however, the Representative shall not have completed such arrangements within such 24-hour period, then:

(i) if the principal amount of Defaulted Securities does not exceed 10% of the aggregate principal amount of the Securities to be purchased on such date, each of the non-defaulting Initial Purchasers shall be obligated, severally and not jointly, to purchase the full amount thereof in the proportions that their respective underwriting obligations hereunder bear to the underwriting obligations of all non-defaulting Initial Purchasers, or

(ii) if the principal amount of Defaulted Securities exceeds 10% of the aggregate principal amount of the Securities to be purchased on such date, this Agreement or, with respect to any Date of Delivery which occurs after the Closing Time, the obligation of the Initial Purchasers to purchase, and the Company to sell, the Option Securities to be purchased and sold on such Date of Delivery, shall terminate without liability on the part of any non-defaulting Initial Purchaser.

No action taken pursuant to this Section shall relieve any defaulting Initial Purchaser from liability in respect of its default.

In the event of any such default which does not result in a termination of this Agreement or, in the case of a Date of Delivery which is after the Closing Time, which does not result in a termination of the obligation of the Initial Purchasers to purchase and the Company to sell the relevant Option Securities, as the case may be, either the (i) Representative or (ii) the Company shall have the right to postpone Closing Time or the relevant Date of Delivery, as the case may be, for a period not exceeding seven days in order to effect any required changes in the General Disclosure Package or the Final Offering Memorandum or in any other documents or arrangements. As used herein, the term "Initial Purchaser" includes any person substituted for an Initial Purchaser under this Section 11.

SECTION 12. Notices. All notices and other communications hereunder shall be in writing and shall be deemed to have been duly given if mailed or transmitted by any standard form of telecommunication. Notices to the Initial Purchasers shall be directed to Barclays at Barclays Capital Inc., 745 Seventh Avenue, New York, New York 10019, Attention: Syndicate Registration (Fax: (646) 834-8133) with a copy to Davis Polk & Wardwell LLP, 1600 El Camino Real, Menlo Park, California 94025, Attention: Emily Roberts; notices to the Company shall be directed to it at 4300 North First Street, San Jose, California 95134, attention of General Counsel (fax (408) 490-6524) (harmoniclegal@harmonicinc.com).

SECTION 13. No Advisory or Fiduciary Relationship. The Company acknowledges and agrees that (a) the purchase and sale of the Securities pursuant to this Agreement, including the determination of the initial offering price of the Securities and any related discounts and commissions, is an arm's-length commercial transaction between the Company, on the one hand, and the several Initial Purchasers, on the other hand, (b) in connection with the offering of the Securities and the process leading thereto, each Initial Purchaser is and has been acting solely as a principal and is not the agent or fiduciary of the Company, any of its subsidiaries or their respective stockholders, creditors, employees or any other party, (c) no Initial Purchaser has assumed or will assume an advisory or fiduciary responsibility in favor of the Company with respect to the offering of the Securities or the process leading thereto (irrespective of whether such Initial Purchaser has advised or is currently advising the Company or any of its subsidiaries on other matters) and no Initial Purchaser has any obligation to the Company with respect to the offering of the Securities except the obligations expressly set forth in this Agreement, (d) the Initial Purchasers and their respective affiliates may be engaged in a broad range of transactions that involve interests that differ from those of the Company and (e) the Initial Purchasers have not provided any legal, accounting, regulatory or tax advice with respect to the offering of the Securities and the Company has consulted its own respective legal, accounting, regulatory and tax advisors to the extent it deemed appropriate.

SECTION 14. Parties. This Agreement shall each inure to the benefit of and be binding upon the Initial Purchasers and the Company and their respective successors. Nothing expressed or mentioned in this Agreement is intended or shall be construed to give any person, firm or corporation, other than the Initial Purchasers and the Company and their respective successors and the controlling persons and officers and directors referred to in Sections 7 and 8 and their heirs and legal representatives, any legal or equitable right, remedy or claim under or in respect of this Agreement or any provision herein contained. This Agreement and all conditions and provisions hereof are intended to be for the sole and exclusive benefit of the Initial Purchasers and the Company and their respective successors, and said controlling persons and officers and directors and their heirs and legal representatives, and for the benefit of no other person, firm or corporation. No purchaser of Securities from any Initial Purchaser shall be deemed to be a successor by reason merely of such purchase.

SECTION 15. Trial by Jury. The Company (on its behalf and, to the extent permitted by applicable law, on behalf of its stockholders and affiliates) and each of the Initial Purchasers hereby irrevocably waives, to the fullest extent permitted by applicable law, any and all right to trial by jury in any legal proceeding arising out of or relating to this Agreement or the transactions contemplated hereby.

SECTION 16. GOVERNING LAW. THIS AGREEMENT AND ANY CLAIM, CONTROVERSY OR DISPUTE ARISING UNDER OR RELATED TO THIS AGREEMENT SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF, THE STATE OF NEW YORK WITHOUT REGARD TO ITS CHOICE OF LAW PROVISIONS.

SECTION 17. Consent to Jurisdiction. Any legal suit, action or proceeding arising out of or based upon this Agreement or the transactions contemplated hereby (“Related Proceedings”) shall be instituted in (i) the federal courts of the United States of America located in the City and County of New York, Borough of Manhattan or (ii) the courts of the State of New York located in the City and County of New York, Borough of Manhattan (collectively, the “Specified Courts”), and each party irrevocably submits to the exclusive jurisdiction (except for proceedings instituted in regard to the enforcement of a judgment of any such court, as to which such jurisdiction is non-exclusive) of such courts in any such suit, action or proceeding. Service of any process, summons, notice or document by mail to such party’s address set forth above shall be effective service of process for any suit, action or other proceeding brought in any such court. The parties irrevocably and unconditionally waive any objection to the laying of venue of any suit, action or other proceeding in the Specified Courts and irrevocably and unconditionally waive and agree not to plead or claim in any such court that any such suit, action or other proceeding brought in any such court has been brought in an inconvenient forum.

SECTION 18. Recognition of the U.S. Special Resolution Regimes.

(a) In the event that any Initial Purchaser that is a Covered Entity becomes subject to a proceeding under a U.S. Special Resolution Regime, the transfer from such Initial Purchaser of this Agreement, and any interest and obligation in or under this Agreement, will be effective to the same extent as the transfer would be effective under the U.S. Special Resolution Regime if this Agreement, and any such interest and obligation, were governed by the laws of the United States or a state of the United States.

(b) In the event that any Initial Purchaser that is a Covered Entity or a BHC Act Affiliate of such Initial Purchaser becomes subject to a proceeding under a U.S. Special Resolution Regime, Default Rights under this Agreement that may be exercised against such Initial Purchaser are permitted to be exercised to no greater extent than such Default Rights could be exercised under the U.S. Special Resolution Regime if this Agreement were governed by the laws of the United States or a state of the United States.

(c) As used in this Agreement:

(a) “BHC Act Affiliate” has the meaning assigned to the term “affiliate” in, and shall be interpreted in accordance with, 12 U.S.C. § 1841(k).

(b) “Covered Entity” means any of the following:

(x) a “covered entity” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 252.82(b);

(y) a “covered bank” as that term is defined in, and interpreted in accordance with, 12 C.F.R. § 47.3(b); or

(z) a “covered FSI” as that term is defined in, and interpreted in accordance with 12 C.F.R. § 382.2(b).

(c) “Default Right” has the meaning assigned to that term in, and shall be interpreted in accordance with, 12 C.F.R. §§ 252.81, 47.2 or 382.1, as applicable.

(d) “U.S. Special Resolution Regime” means each of (i) the Federal Deposit Insurance Act and the regulations promulgated thereunder and (ii) Title II of the Dodd-Frank Wall Street Reform and Consumer Protection Act and the regulations promulgated thereunder.

SECTION 19. TIME. TIME SHALL BE OF THE ESSENCE OF THIS AGREEMENT. EXCEPT AS OTHERWISE SET FORTH HEREIN, SPECIFIED TIMES OF DAY REFER TO NEW YORK CITY TIME.

SECTION 20. Counterparts. This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original, but all such counterparts shall together constitute one and the same Agreement.

SECTION 21. Effect of Headings. The Section headings herein are for convenience only and shall not affect the construction hereof.

If the foregoing is in accordance with your understanding of our agreement, please sign and return to the Company a counterpart hereof, whereupon this instrument, along with all counterparts, will become a binding agreement among the Initial Purchasers and the Company in accordance with its terms.

Very truly yours,  
HARMONIC INC.

By /s/ Sanjay Kalra  
Title: Chief Financial Officer

CONFIRMED AND ACCEPTED,  
as of the date first above written:

BARCLAYS CAPITAL INC.

By /s/ Syed Rajib Imteaz, Managing Director  
Authorized Signatory

For itself and as Representative of the other Initial Purchasers named in Schedule A hereto.

SCHEDULE A

The initial offering price of the Securities shall be 100.00% of the principal amount thereof, plus accrued interest, if any, from September 13, 2019.

The purchase price to be paid by the Initial Purchasers for the Securities shall be 97.00% of the principal amount thereof plus accrued interest, if any, from September 13, 2019.

The interest rate on the Securities shall be 2.00% per annum.

Name of Initial Purchaser	Principal Amount of Securities
Barclays Capital Inc.	\$ 87,390,000
Dougherty & Company LLC	3,522,000
Needham & Company, LLC	3,522,000
Northland Securities, Inc.	3,522,000
Raymond James & Associates, Inc.	3,522,000
Stifel, Nicolaus & Company, Incorporated	3,522,000
Total	<u>\$105,000,000</u>

Sch A-1



**HARMONIC INC.  
\$105,000,000 PRINCIPAL AMOUNT OF  
2.00% CONVERTIBLE SENIOR NOTES DUE 2024**

*The information in this pricing term sheet supplements Harmonic Inc.'s preliminary offering memorandum, dated September 10, 2019 (the "Preliminary Offering Memorandum"), and supersedes the information in the Preliminary Offering Memorandum to the extent inconsistent with the information contained or incorporated by reference in the Preliminary Offering Memorandum. In all other respects, this term sheet is qualified in its entirety by reference to the Preliminary Offering Memorandum, including all other documents incorporated by reference therein. References to "we," "our" and "us" refer to Harmonic Inc. and not to its consolidated subsidiaries. Terms used herein but not defined herein shall have the respective meanings as set forth in the Preliminary Offering Memorandum. All references to dollar amounts are references to U.S. dollars.*

<b>Issuer:</b>	Harmonic Inc.
<b>Ticker/Exchange for Our Common Stock:</b>	"HLIT"/The Nasdaq Global Select Market.
<b>Securities:</b>	2.00% Convertible Senior Notes due 2024 (the "notes").
<b>Principal Amount:</b>	\$105,000,000.
<b>Option to Purchase Additional Notes:</b>	\$10,500,000.
<b>Denominations:</b>	\$1,000 and multiples of \$1,000 in excess thereof.
<b>Maturity:</b>	September 1, 2024, unless earlier repurchased, redeemed or converted.
<b>Ranking:</b>	Senior unsecured.
<b>Redemption at Our Option:</b>	<p>We may not redeem the notes prior to September 6, 2022. We may redeem for cash all or any portion of the notes, at our option, on or after September 6, 2022 if the last reported sale price of our common stock has been at least 130% of the conversion price then in effect for at least 20 trading days (whether or not consecutive) during any 30 consecutive trading day period (including the last trading day of such period) ending on, and including, the trading day immediately preceding the date on which we provide a redemption notice at a redemption price equal to 100% of the principal amount of the notes to be redeemed, <i>plus</i> accrued and unpaid interest to, but excluding, the redemption date.</p> <p>No "sinking fund" is provided for the notes, which means that we are not required to redeem or retire the notes periodically.</p> <p>See "Description of Notes—Optional Redemption On or After September 6, 2022" in the Preliminary Offering Memorandum.</p>
<b>Fundamental Change:</b>	<p>If we undergo a "fundamental change" (as defined in the Preliminary Offering Memorandum under the caption "Description of Notes—Fundamental Change Permits Holders to Require Us to Repurchase Notes") prior to the maturity date of the notes, subject to certain conditions, holders may require us to repurchase for cash</p>

all or part of their notes in principal amounts of \$1,000 or a multiple thereof. The fundamental change repurchase price will be equal to 100% of the principal amount of the notes to be repurchased, *plus* any accrued and unpaid interest to, but excluding, the fundamental change repurchase date. See “Description of Notes—Fundamental Change Permits Holders to Require us to Repurchase Notes” in the Preliminary Offering Memorandum.

**Interest and Interest Payment Dates:**

2.00% per year. Interest will accrue from September 13, 2019 and will be payable semiannually in arrears on March 1 and September 1 of each year, beginning on March 1, 2020. We will pay additional interest, if any, at our election as the sole remedy relating to the failure to comply with our reporting obligations as described in the Preliminary Offering Memorandum under the caption “Description of Notes—Events of Default” and under the circumstances described in the Preliminary Offering Memorandum under the caption “Description of Notes—No Registration Rights; Additional Interest.”

**Regular Record Dates:**

February 15 and August 15 of each year, immediately preceding the relevant March 1 or September 1 interest payment date, as the case may be.

**Issue Price:**

100% of principal, *plus* accrued interest, if any, from September 13, 2019 if settlement occurs after that date.

**Last Reported Sale Price of Our Common Stock on The Nasdaq Global Select Market on September 10, 2019:**

\$6.66 per share.

**Initial Conversion Rate:**

115.5001 shares of our common stock per \$1,000 principal amount of notes, subject to adjustment.

**Initial Conversion Price:**

Approximately \$8.66 per share of our common stock, subject to adjustment.

**Conversion Premium:**

Approximately 30% above the last reported sale price of our common stock on The Nasdaq Global Select Market on September 10, 2019.

**Settlement Method:**

Initially, the notes will be convertible into solely cash. However, following satisfaction of the share reservation condition (as defined in the Preliminary Offering Memorandum), we will settle conversions of notes through payment or delivery, as the case may be, of cash, shares of our common stock or a combination of cash and shares of our common stock, at our election, as described in the Preliminary Offering Memorandum. See “Description of Notes—Conversion Rights—Settlement Upon Conversion” in the Preliminary Offering Memorandum.

If the repurchases of our existing convertible notes described in “Use of Proceeds” below settle on or around the issuance date of the notes, we expect to satisfy the share reservation condition on or shortly following the issuance date of the notes.

**Sole Book-Running Manager:**

Barclays Capital Inc.

**Co-Managers:**

Dougherty & Company LLC  
Needham & Company, LLC  
Northland Securities, Inc.  
Raymond James & Associates, Inc.  
Stifel, Nicolaus & Company, Incorporated

<b>Pricing Date:</b>	September 10, 2019.
<b>Trade Date:</b>	September 11, 2019.
<b>Expected Settlement Date:</b>	September 13, 2019.
<b>CUSIP Number (144A):</b>	413160 AC6
<b>ISIN (144A):</b>	US413160AC64
<b>Listing:</b>	None.
<b>No PRIIPs KID:</b>	The Notes may not be offered, sold or otherwise made available to any retail investor in the EEA. Consequently, no PRIIPs key information document (“KID”) has been prepared.
<b>Use of Proceeds:</b>	<p>We estimate that the net proceeds from this offering will be approximately \$101.0 million (or \$111.2 million if the initial purchasers exercise their option to purchase additional notes in full), after deducting the initial purchasers’ discounts and commissions and estimated offering expenses payable by us.</p> <p>We expect to use the net proceeds from this offering, together with cash on hand, to repurchase approximately \$82.5 million principal amount of our 4.00% Convertible Senior Notes due 2020 (the “2020 notes”) in privately negotiated transactions concurrently with this offering. If the initial purchasers exercise their option to purchase additional notes, we intend to use the net proceeds from the sale of such additional notes for the repurchase or other retirement of 2020 notes and/or other general corporate purposes.</p> <p>See “Use of Proceeds” and “Risk Factors—Risks related to the notes—Any repurchases of the 2020 Notes prior to maturity may affect the value of the notes and our common stock” in the Preliminary Offering Memorandum.</p>

**Description of Notes—Conversion Rights—Increase in Conversion Rate Upon Conversion Upon a Make-Whole Fundamental Change or a Redemption Notice**

Holders who convert their notes in connection with a make-whole fundamental change or a redemption, as the case may be, occurring prior to the maturity date are entitled to an increase in the conversion rate for the notes so surrendered for conversion.

The following table sets forth the number of additional shares by which the conversion rate will be increased per \$1,000 principal amount of notes for each stock price and effective date set forth below.

<u>Effective Date</u>	<u>\$6.66</u>	<u>\$7.00</u>	<u>\$8.00</u>	<u>\$8.66</u>	<u>\$10.00</u>	<u>\$11.26</u>	<u>\$15.00</u>	<u>\$20.00</u>	<u>\$30.00</u>	<u>\$40.00</u>	<u>\$50.00</u>
September 13, 2019	34.6500	34.6500	28.2867	24.0452	17.7290	13.6489	6.9575	3.2795	0.8829	0.2041	0.0000
September 1, 2020	34.6500	34.6500	27.5440	23.1324	16.6512	12.5454	6.0416	2.6800	0.6483	0.1184	0.0000
September 1, 2021	34.6500	34.6500	26.0251	21.4484	14.8608	10.8133	4.7487	1.9162	0.3957	0.0434	0.0000
September 1, 2022	34.6500	33.7297	23.5769	18.8086	12.1747	8.3105	3.0779	1.0619	0.1759	0.0030	0.0000
September 1, 2023	34.6500	30.7048	19.4315	14.3808	7.8587	4.5203	1.0435	0.2734	0.0376	0.0000	0.0000
September 1, 2024	34.6500	27.3570	9.4999	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

The exact stock prices and effective dates may not be set forth in the table above, in which case:

- If the stock price is between two stock prices in the table or the effective date is between two effective dates in the table, the number of additional shares by which the conversion rate for the notes will be increased will be determined by a straight-line interpolation between the number of additional shares set forth for the higher and lower stock prices and the earlier and later effective dates, as applicable, based on a 365-day year.
- If the stock price is greater than \$50.00 per share (subject to adjustment in the same manner as the stock prices set forth in the column headings of the table above as described in the Preliminary Offering Memorandum), no additional shares will be added to the conversion rate for the notes.
- If the stock price is less than \$6.66 per share (subject to adjustment in the same manner as the stock prices set forth in the column headings of the table above), no additional shares will be added to the conversion rate for the notes.

Notwithstanding the foregoing, in no event will the conversion rate per \$1,000 principal amount of notes exceed 150.1501 shares of common stock, subject to adjustment in the same manner as the conversion rate as set forth in the Preliminary Offering Memorandum under the caption “Description of Notes—Conversion Rights—Conversion Rate Adjustments.”

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**This communication is intended for the sole use of the person to whom it is provided by the sender. This material is confidential and is for your information only and is not intended to be used by anyone other than you. This information does not purport to be a complete description of the notes or the offering; accordingly, it is qualified in its entirety by reference to the Preliminary Offering Memorandum, except for information in the Preliminary Offering Memorandum superseded by information included herein. This communication does not constitute an offer to sell or the solicitation of an offer to buy any notes in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction.**

**The notes and any shares of common stock issuable upon conversion of the notes have not been and will not be registered under the U.S. Securities Act of 1933, as amended (the "Securities Act"), or any other securities laws, and may not be offered or sold within the United States or any other jurisdiction, except pursuant to an exemption from, or in a transaction not subject to, the registration requirements of the Securities Act and any other applicable securities laws. The initial purchasers are initially offering the notes only to persons reasonably believed to be qualified institutional buyers as defined in, and in reliance on, Rule 144A under the Securities Act.**

**The notes and any shares of common stock issuable upon conversion of the notes are not transferable except in accordance with the restrictions described under the captions "Notice to Investors" and "Transfer Restrictions" in the Preliminary Offering Memorandum.**

**A copy of the Preliminary Offering Memorandum for the offering of the notes may be obtained by contacting your Barclays Capital Inc. representative.**

**Any legends, disclaimers or other notices that may appear below are not applicable to this communication and should be disregarded. Such legends, disclaimers or other notices have been automatically generated as a result of this communication having been sent via Bloomberg or another system.**

SCHEDULE C

Issuer Written Information

Final Term Sheet in the form set forth on Schedule B

Road show presentation relating to the Securities dated September 10, 2019

Sch C-1

SCHEDULE D

List of Persons and Entities Subject to Lock-up

Patrick Gallagher  
Patrick Harshman  
Deborah L. Clifford  
David Krall  
Mitzi Reaugh  
Susan G. Swenson  
Nikos Theodosopoulos  
Sanjay Kalra  
Nimrod Ben-Natan  
Neven Haltmayer  
Eric Louvet

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## FORM OF LOCK-UP TO BE DELIVERED PURSUANT TO SECTION 5(i)

September\_\_\_\_, 2019

Barclays Capital Inc.  
as Representative of the several  
Initial Purchasers to be named in Schedule A to the Purchase Agreement

745 Seventh Avenue  
New York, New York 10019

Re: Proposed Private Placement by Harmonic Inc.

Dear Sirs:

The undersigned, a stockholder and an officer and/or director of Harmonic Inc., a Delaware corporation (the "Company"), understands that Barclays Capital Inc. ("Barclays") proposes to enter into a Purchase Agreement (the "Purchase Agreement"), as representative of the several Initial Purchasers to be named in Schedule A to such agreement (collectively, the "Initial Purchasers"), with the Company providing for the placement of \$105,000,000 aggregate principal amount of the Company's Convertible Senior Notes due 2024 (the "Securities"). In recognition of the benefit that such a placement will confer upon the undersigned as a stockholder and an officer and/or director of the Company, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned agrees with each Initial Purchaser that, during the period beginning on the date hereof and ending on the date that is 90 days from the date of the Purchase Agreement (the "Lock-up Period"), the undersigned will not, without the prior written consent of Barclays, (i) directly or indirectly, offer, pledge, sell, contract to sell, sell any option or contract to purchase, purchase any option or contract to sell, grant any option, right or warrant to purchase or otherwise transfer or dispose of any shares of the Company's common stock, par value \$0.001 per share (the "Common Stock"), or any securities convertible into or exercisable or exchangeable for Common Stock, whether now owned or hereafter acquired by the undersigned or with respect to which the undersigned has or hereafter acquires the power of disposition (collectively, the "Lock-Up Securities"), or exercise any right with respect to the registration of any of the Lock-up Securities, or file or cause to be filed any registration statement in connection therewith, under the Securities Act of 1933, as amended, or (ii) enter into any swap or any other agreement or any transaction that transfers, in whole or in part, directly or indirectly, the economic consequence of ownership of the Lock-Up Securities, whether any such swap or transaction is to be settled by delivery of Common Stock or other securities, in cash or otherwise.

Notwithstanding the foregoing, and subject to the conditions below, the undersigned may:

- (a) transfer the undersigned's Lock-Up Securities without the prior written consent of Barclays:
  - (i) as a *bona fide* gift or gifts;
  - (ii) to any member of the undersigned's immediate family or to any trust for the direct or indirect benefit of the undersigned or the immediate family of the undersigned, or if the undersigned is a trust, to a trustor or beneficiary of the trust or to the estate of a beneficiary of such trust, *provided* that any such transfer shall not involve a disposition for value (for purposes of this lock-up agreement, "immediate family" shall mean any relationship by blood, marriage or adoption, not more remote than first cousin);

- (iii) by will or intestate succession upon the death of the undersigned;
- (iv) as a distribution to limited partners or stockholders of the undersigned or affiliates of the undersigned;
- (v) to the undersigned's affiliates or to any investment fund or other entity controlled or managed by the undersigned;
- (vi) in connection with the exercise of options, warrants or rights to acquire shares of Common Stock or any security convertible or exercisable into shares of Common Stock issued pursuant to the Company's employee benefit plans in effect on the date hereof or agreements made available to Barclays in accordance with their terms that expire during the Lock-up Period, *provided* that any such shares issued upon exercise of such option or warrant or other right to acquire shares of Common Stock shall continue to be subject to the provisions of this agreement;
- (vii) to the Company in connection with the receipt of shares of Common Stock in connection with the vesting or settlement of restricted stock units that vest during the Lock-up Period or the "net" or "cashless" exercise of options that expire during the Lock-up Period to purchase shares of Common Stock for purposes of exercising such options, including the payment of taxes due as a result of the vesting, settlement or exercise of such securities, *provided* that any such shares of Common Stock received upon such vesting, settlement or exercise shall continue to be subject to the provisions of this agreement, and, in addition, to the extent the Company or the undersigned elects to settle income tax withholding and remittance obligations of the undersigned in connection with the vesting of such restricted stock units held by the undersigned by withholding shares of Common Stock pursuant to this subclause, then the undersigned may transfer up to a number of shares of Common Stock underlying the vested and settled restricted stock units held by the undersigned equal to the maximum tax rate applicable to such undersigned;
- (viii) if the undersigned is not eligible to settle income tax withholding and remittance obligations of the undersigned in connection with the vesting of restricted stock units held by the undersigned that vest during the Lock-up Period by withholding shares of Common Stock pursuant to subclause (vii) above, then the undersigned may transfer to the Company up to a number of shares of the Common Stock underlying the vested and settled restricted stock units held by the undersigned equal to the maximum tax rate applicable to such undersigned;
- (ix) to the Company, in connection with the repurchase of shares of Common Stock issued pursuant to an employee benefit plan in effect on the date hereof in accordance with the terms of such plan;
- (x) pursuant to a written plan meeting the requirements of Rule 10b5-1 (a "10b5-1 Plan") under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), in existence as of the date hereof, *provided* that any public announcement or filing under Section 16(a) of the Exchange Act regarding such sale or transfer state that such transfers are made pursuant to a 10b5-1 Plan;

(xi) pursuant to a bona fide third-party tender offer, merger, consolidation or other similar transaction made to all holders of the Common Stock involving a change of control of the Company, *provided* that in the event that such tender offer, merger, consolidation or other such transaction is not completed, the undersigned's Lock-Up Securities shall continue to be subject to the provisions of this agreement; for purposes of this clause (xi), "change of control" means the consummation of any bona fide third-party tender offer, merger, consolidation or other similar transaction the result of which is that any "person" (as defined in Section 13(d)(3) of the Exchange Act), or group of persons, other than the Company, becomes the beneficial owner (as defined in Rules 13d-3 and 13d-5 of the Exchange Act) of more than 50% of total voting power of the voting stock of the Company; or

(xii) by operation of law, pursuant to a qualified domestic order or in connection with a divorce settlement;

*provided, however*, that in the case of subclauses (i), (ii), (iii), (iv) and (v) above, it shall be a condition to the transfer or distribution that each donee, trustee, distributee, or transferee shall execute an agreement stating that such donee, trustee, distributee, or transferee is receiving and holding such capital stock subject to the provisions of this agreement and there shall be no further transfer of such capital stock except in accordance with this agreement; and

*provided further*, that in the case of subclauses (i), (ii), (iii), (iv), (v) and (vi) above, it shall be a condition to such transfer that no filing under Section 16(a) of the Exchange Act nor any other public filing or disclosure of such transfer by or on behalf of the undersigned shall be required or voluntarily made during the Lock-Up Period; *provided further, however*, that solely with respect to subclause (iii), this provision shall not apply with respect to mandatory Form 5 filings under Section 16(a) of the Exchange Act; and *provided further*, that in the case of subclauses (vii) and (viii), any filing under Section 16 of the Exchange Act required in connection therewith indicates that such transfer is to satisfy income tax withholding obligations in connection with the vesting or settlement of restricted stock units or the "net" or "cashless" exercise of options to purchase shares of Common Stock, as applicable.

(b) enter into, amend or modify a 10b5-1 Plan after the date of this agreement relating to the sale of the undersigned's Lock-Up Securities, *provided* that the securities subject to such 10b5-1 Plan may not be sold until after the expiration of the Lock-Up Period, and no public announcement or filing under the Exchange Act regarding the establishment of such plan shall be required or voluntarily made during the Lock-Up Period.

The undersigned also agrees and consents to the entry of stop transfer instructions with the Company's transfer agent and registrar against the transfer of the Lock-Up Securities except in compliance with the foregoing restrictions.

Notwithstanding anything to the contrary contained herein, this agreement shall automatically terminate upon the termination of the Purchase Agreement (other than the provisions thereof which survive termination) prior to payment for and delivery of the Securities.

The undersigned hereby consents to receipt of this agreement in electronic form and understands and agrees that this agreement may be signed electronically. In the event that any signature is delivered by facsimile transmission, electronic mail, or otherwise by electronic transmission evidencing an intent to sign this agreement, such facsimile transmission, electronic mail or other electronic transmission shall create a valid and binding obligation of the undersigned with the same force and effect as if such signature were an original. Execution and delivery of this agreement by facsimile transmission, electronic mail or other electronic transmission is legal, valid and binding for all purposes.

Very truly yours,

Signature: \_\_\_\_\_

Print Name: \_\_\_\_\_

EXHIBIT B  
Form of WSGR Opinion

1. The Company is a corporation duly incorporated and validly existing under the laws of the State of Delaware and is in good standing under such laws. The Company has requisite corporate power to own or lease its properties and carry on its business, as described in the Final Offering Memorandum. The Company is qualified to do business as a foreign corporation and is in good standing in the State of California.
2. The execution and delivery of the Operative Documents have been duly authorized by all necessary corporate action on the part of the Company, and the Purchase Agreement has been duly authorized, executed and delivered by the Company.
3. The Company has the corporate power to execute and deliver the Operative Documents and to perform its obligations under the terms of the Operative Documents.
4. The Securities being issued on the date hereof are in the form contemplated in the Indenture and have been duly authorized by all necessary corporate action of the Company and have been duly executed by the Company, and when authenticated by the Trustee in accordance with the terms of the Indenture (which authentication we have not determined by inspection of the Securities) and issued and delivered to the Initial Purchasers against payment of the purchase price therefor specified in the Purchase Agreement, the Securities will constitute valid and binding obligations of the Company, enforceable against the Company in accordance with their terms.
5. The Indenture has been duly authorized by all necessary corporate action on the part of the Company and the Indenture has been duly executed and delivered by the Company and, assuming the due authorization, execution and delivery thereof by the Trustee, the Indenture constitutes a valid and binding instrument, enforceable against the Company in accordance with its terms.
6. The shares of Common Stock initially issuable upon conversion of the Securities (assuming the full physical settlement of the Securities upon conversion and including the maximum number of shares of Common Stock issuable with respect to any Make-Whole Fundamental Change (as defined in the Indenture) or redemption) (the “**Shares**”) have been duly authorized by the Company and the Shares, if any, when issued upon due conversion of the Securities in accordance with the terms of the Securities and the Indenture would, if issued today, be validly issued, fully paid and nonassessable and free of preemptive rights arising under the Certificate of Incorporation, the Bylaws, any Reviewed Agreement or the DGCL.
7. The statements set forth in the General Disclosure Package and the Final Offering Memorandum under the caption “Description of Notes” insofar as such statements purport to constitute a summary of the terms of the Indenture and the Securities, fairly summarize such terms in all material respects.
8. The statements set forth in the General Disclosure Package and the Final Offering Memorandum under the caption “Certain U.S. Federal Income Tax Considerations,” insofar as they purport to summarize the United States federal tax laws referred to therein or legal conclusions with respect thereto, are fair summaries in all material respects.

9. The statements set forth in the General Disclosure Package and Final Offering Memorandum under the caption “Description of Capital Stock,” insofar as such statements constitute summaries of legal matters or documents, fairly summarize the matters and documents referred to therein in all material respects.
10. The Company is not, and immediately after giving effect to the offering and sale of the Securities and the application of the net proceeds thereof as described in the General Disclosure Package, will not be, required to register as an “investment company” as such term is defined in the Investment Company Act.
11. None of the issuance and sale of the Securities being delivered on the date hereof, the execution, delivery and performance by the Company of its obligations under the Operative Documents or the consummation of the transactions contemplated thereby will (i) violate the Certificate of Incorporation or the Bylaws, (ii) conflict with, result in a breach or violation by the Company of any of the terms or provisions of, or constitute a default by the Company under, any Reviewed Agreement, (iii) result in a violation of any U.S. federal, California or New York state law, rule or regulation or the DGCL, or (iv) result in a violation of any Reviewed Judgment.
12. No consent, approval, authorization, order, registration or qualification of or with any U.S. federal, California, New York or Delaware (solely with respect to the DGCL) governmental agency or body or court is required for the execution and delivery of the Operative Documents, the offer and sale by the Company of the Securities or the consummation by the Company of the transactions contemplated by the Purchase Agreement or the Indenture, except (i) such as have been obtained under the Securities Act and (ii) such as may be required under state securities or Blue Sky laws.
13. Assuming the accuracy of the Initial Purchasers’ representations contained in the Purchase Agreement and the accuracy of the Company’s representations contained in the Purchase Agreement, no registration of the Securities or the Shares is required under the Securities Act for the sale of the Securities by the Company to the Initial Purchasers pursuant to the Purchase Agreement and the Indenture or for the initial resale of the Securities by the Initial Purchasers in the manner contemplated by the Purchase Agreement, the General Disclosure Package and the Final Offering Memorandum, and it is not necessary to qualify the Indenture under the Trust Indenture Act of 1939, as amended (it being understood that, in each case, no opinion is expressed as to any subsequent resale of the Securities or the consequences thereof).

**Harmonic Inc. Announces Proposed Private Offering of \$105 Million Convertible Senior Notes**

**SAN JOSE, Calif.** — September 10, 2019 — Harmonic Inc. (NASDAQ: HLIT), the worldwide leader in video delivery infrastructure, today announced that it intends to offer, subject to market conditions and other factors, \$105.0 million aggregate principal amount of convertible senior notes due 2024 (the “notes”) in a private placement to persons reasonably believed to be qualified institutional buyers pursuant to Rule 144A under the Securities Act of 1933, as amended (the “Securities Act”). Harmonic also intends to grant the initial purchasers of the notes a 13-day option to purchase up to an additional \$10.5 million aggregate principal amount of the notes.

The notes will be senior unsecured obligations of Harmonic, and will accrue interest payable semiannually in arrears. The notes will mature on September 1, 2024, unless earlier converted, repurchased or redeemed. The notes will be convertible, subject to certain conditions, into cash or cash, shares of Harmonic’s common stock, or a combination thereof, at Harmonic’s election. The interest rate, initial conversion rate, repurchase rights and other terms of the notes will be determined at the time of pricing of the offering.

Harmonic intends to use the net proceeds from the offering to repurchase a portion of their outstanding 4.00% convertible senior notes due 2020 (the “2020 Notes”) in privately negotiated transactions concurrently with the offering of the notes. If the initial purchasers exercise their option to purchase additional notes, Harmonic intends to use the net proceeds from the sale of such additional notes for the repurchase or other retirement of additional outstanding 2020 Notes and/or other general corporate purposes.

Harmonic expects that those holders of the 2020 Notes that sell their 2020 Notes may enter into or unwind various derivatives with respect to Harmonic’s common stock and/or purchase or sell shares of Harmonic’s common stock in the market to hedge their exposure in connection with these transactions. In particular, Harmonic expects that many holders of the 2020 Notes employ a convertible arbitrage strategy with respect to the 2020 Notes and have a short position with respect to Harmonic’s common stock that they would close, through purchases of Harmonic’s common stock, in connection with Harmonic’s repurchase of their 2020 Notes. If any such activity occurs, it could increase (or reduce the size of any decrease in) the market price of Harmonic’s common stock or the notes at that time.

Neither the notes, nor any shares of Harmonic’s common stock issuable upon conversion of the notes, have been, nor will be, registered under the Securities Act or any state securities laws and, unless so registered, such securities may not be offered or sold absent registration or an applicable exemption from, or in a transaction not subject to, the registration requirements of the Securities Act and other applicable securities laws.

This press release is neither an offer to sell nor a solicitation of an offer to buy any securities, nor shall it constitute an offer, solicitation or sale of the securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such jurisdiction.

**Media Contact:**

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**Investor Relations Contact:**

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Investor Relations for Harmonic  
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**Harmonic Inc. Announces Pricing of Offering of \$105 Million of Convertible Senior Notes**

**SAN JOSE, Calif.** – September 11, 2019 – Harmonic Inc. (NASDAQ: HLIT), the worldwide leader in video delivery infrastructure, today announced the pricing of \$105.0 million aggregate principal amount of 2.00% convertible senior notes due 2024 (the “notes”) in a private placement to persons reasonably believed to be qualified institutional buyers pursuant to Rule 144A under the Securities Act of 1933, as amended (the “Securities Act”). Harmonic also granted the initial purchasers of the notes a 13-day option to purchase up to an additional \$10.5 million aggregate principal amount of the notes. The sale of the notes is expected to close on September 13, 2019, subject to customary closing conditions.

The notes will be senior unsecured obligations of Harmonic, and will accrue interest payable semiannually in arrears on March 1 and September 1 of each year, beginning on March 1, 2020. The notes will mature on September 1, 2024, unless earlier converted, redeemed or repurchased. The initial conversion rate will be 115.5001 shares of Harmonic’s common stock (“common stock”) per \$1,000 principal amount of notes (equivalent to an initial conversion price of approximately \$8.66 per share of common stock). The initial conversion price of the notes represents a premium of approximately 30% over the last reported sale price of Harmonic’s common stock on The Nasdaq Global Select Market on September 10, 2019. The notes will be convertible, subject to certain conditions, into cash or cash, shares of Harmonic’s common stock or a combination thereof, at Harmonic’s election.

Harmonic may redeem the notes, at its option, on or after September 6, 2022, if the last reported sale price of Harmonic’s common stock has been at least 130% of the conversion price then in effect for at least 20 trading days (whether or not consecutive) during any 30 consecutive trading day period (including the last trading day of such period) ending on, and including, the trading day immediately preceding the date on which Harmonic provides notice of redemption at a redemption price equal to 100% of the principal amount of the notes to be redeemed, plus accrued and unpaid interest to, but excluding, the redemption date.

If a “fundamental change” (as defined in the indenture governing the notes) occurs at any time prior to the maturity date, holders of the notes may require Harmonic to repurchase for cash all or any portion of their notes at a repurchase price equal to 100% of the principal amount of the notes to be repurchased, plus accrued and unpaid interest. In addition, following certain corporate events or if Harmonic issues a notice of redemption, Harmonic will, under certain circumstances, increase the conversion rate for holders who convert their notes in connection with such corporate event or notice of redemption.

Harmonic estimates that the net proceeds from the offering will be approximately \$101.0 million (or \$111.2 million if the initial purchasers exercise their option to purchase additional notes in full), after deducting the initial purchasers’ discounts and commissions and estimated offering expenses payable by Harmonic. Harmonic intends to use the net proceeds from the offering, together with cash on hand, to repurchase approximately \$82.5 million principal amount of their outstanding 4.00% convertible senior notes due 2020 (the “2020 Notes”) in privately negotiated transactions concurrently with the offering of the notes. If the initial purchasers exercise their option to purchase additional notes, Harmonic intends to use the net proceeds from the sale of such additional notes for the repurchase or other retirement of additional outstanding 2020 Notes and/or other general corporate purposes.

Harmonic expects that those holders of the 2020 Notes that sell their 2020 Notes may enter into or unwind various derivatives with respect to Harmonic's common stock and/or purchase or sell shares of Harmonic's common stock in the market to hedge their exposure in connection with these transactions. In particular, Harmonic expects that many holders of the 2020 Notes employ a convertible arbitrage strategy with respect to the 2020 Notes and have a short position with respect to Harmonic's common stock that they would close, through purchases of Harmonic's common stock, in connection with Harmonic's repurchase of their 2020 Notes. If any such activity occurs, it could increase (or reduce the size of any decrease in) the market price of Harmonic's common stock or the notes at that time.

Neither the notes, nor any shares of Harmonic's common stock issuable upon conversion of the notes, have been, nor will be, registered under the Securities Act or any state securities laws and, unless so registered, such securities may not be offered or sold absent registration or an applicable exemption from, or in a transaction not subject to, the registration requirements of the Securities Act and other applicable securities laws.

This press release is neither an offer to sell nor a solicitation of an offer to buy any securities, nor shall it constitute an offer, solicitation or sale of the securities in any jurisdiction in which such offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any such jurisdiction.

**Investor Relations Contact:**

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