UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. )  $^{\star}$ 

NAME OF ISSUER: Harmonic Inc.

TITLE OF CLASS OF SECURITIES: Common Stock

CUSIP NUMBER: 413160102

DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: December 31, 2010

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- [X] Rule 13d-1(b)
- [ ] Rule 13d-1(c)
- [ ] Rule 13d-1(d)

\*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be 'filed' for the purpose of Section 18 of the Securities Exchange Act of 1934 ('Act') or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

CUSIP NUMBER: 413160102

- (1) Names of Reporting Persons The Bank of New York Mellon Corporation IRS Identification Nos. of Above Persons IRS No.13-2614959
- (2) Check the Appropriate Box if a Member of a Group (See Instructions)
  (a) ( ) (b) ( )
- (3) SEC use only
- (4) Citizenship or Place of Organization New York

Number of Shares (5) Sole Voting Power 5,178,927 Beneficially

Owned by Each (6) Shared Voting Power (Reporting Person

With (7) Sole Dispositive Power 5,786,927

- (8) Shared Dispositive Power 6,950
- (9) Aggregate Amount Beneficially Owned
  by Each Reporting Person 5,793,877
- (11) Percent of Class Represented by Amount in Row (9) 5.18%
- (12) Type of Reporting Person (See Instructions) HC

SCHEDULE 13G

- Item 1(a) Name of Issuer: Harmonic Inc.

Item 2(c) Citizenship: See cover page and Exhibit I

Item 2(d) Title of Class of Securities: Common Stock

CUSIP Number 413160102

Symbol Category

BD = Broker or Dealer registered under Section 15 of the Securities Exchange Act of 1934

BK = Bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934

IV = Investment Company registered under Section 8 of the Investment Company Act of 1940

IA = Investment Advisor registered under Section 203 of the Investment Advisors Act of 1940

EP = Employee Benefit Plan, Pension Fund which is subject
to the provisions of the Employee Retirement Income
Security Act of 1974 or Endowment Fund; see
Section 240.13 - d(1) (b) (1) (ii) (F)

HC = Parent Holding Company, in accordance with Section 240.13-d(1) (b) (1) (ii) (G)

The amount beneficially owned includes, where appropriate, securities not outstanding which are subject to options, warrants, rights or conversion privileges that are exercisable within 60 days. The securities reported herein as beneficially owned may exclude securities of the issuer with respect to which voting and/or dispositive power is exercised by subsidiaries of The Bank of New York Mellon Corporation, or departments or units thereof, independently from the exercise of those powers over the securities reported herein. See SEC Release No. 34-39538 (January 12, 1998). The filing of this Schedule 13G shall not be construed as an admission that The Bank of New York Mellon Corporation, or its direct or indirect subsidiaries, including The Bank of New York Mellon and BNY Mellon, National Association, are for the purposes of Section 13(d) or 13(g) of the Act, the beneficial owners of any securities covered by this Schedule 13G.

The following information applies if checked: ( ) The Bank of New York Mellon and/or ( ) The Bank of New York Mellon Trust Company, National Association is/are the trustee of the issuer's employee benefit plan (the Plan), which is subject to ERISA. The securities reported include all shares held of record by such reporting person(s) as trustee of the Plan which have not been allocated to the individual accounts of employee participants in the Plan. The reporting person, however, disclaims beneficial ownership of all shares that have been allocated to the individual accounts of employee participants in the Plan for which directions have been received and followed.

Item 5 Ownership of Five Percent or Less of a Class:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following ()

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

All of the securities are beneficially owned by The Bank of New York Mellon Corporation and its direct or indirect subsidiaries in their various fiduciary capacities. As a result, another entity in every instance is entitled to dividends or proceeds of sale. The number of individual accounts holding an interest of 5% or more is ( )

- Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported by the Parent Holding Company: See Exhibit I.
- Item 8 Identification and Classification of Members of the Group: N/A
- Item 9 Notice of Dissolution of Group: N/A

Item 10 Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired and are not held in connection with or as a participant in any transaction having such purpose or effect.

## SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct. This filing is signed by The Bank of New York Mellon Corporation on behalf of all reporting entities pursuant to Rule 13d-1(k)(1) promulgated under the Securities and Exchange Act of 1934, as amended.

Date: February 03, 2011

THE BANK OF NEW YORK MELLON CORPORATION

By: /s/ NICHOLAS R. DARROW

-----

Nicholas R. Darrow Senior Vice President Attorney-In-Fact for The Bank of New York Mellon Corporation

## EXHIBIT I

The shares reported on the attached Schedule 13G are beneficially owned by the following direct or indirect subsidiaries of The Bank of New York Mellon Corporation, as marked (X):

- (A) The Item 3 classification of each of the subsidiaries listed below is "Item 3(b) bank as defined in Section 3(a)(6) of the Act (15 U.S.C. 78c) or Section 240.13d-1(b)(1)(ii)(J)"
  - (X) The Bank of New York Mellon
  - (X) The Bank of New York Mellon Trust Company, National Association
  - (X) BNY Mellon, National Association
  - ( ) BNY Mellon Trust of Delaware
- (B) The Item 3 classification of each of the subsidiaries listed below is "Item 3(e) an investment adviser in accordance with Section 240.13d-1 (b)(1)(ii)(E) or Section 240.13d-1(b)(1)(ii)(J)"
  - ( ) Blackfriars Asset Management Limited
  - ( ) BNY Mellon ARX Investimentos Ltda (parent holding company of BNY Mellon ARX Ativos Financeiros Ltda)
  - (X) The Boston Company Asset Management LLC
  - (X) The Dreyfus Corporation (parent holding company of MBSC Securities Corporation)
  - ( ) Insight Investment Management (Global) Limited
  - (X) Lockwood Advisors, Inc.

- (X) Mellon Capital Management Corporation
- ( ) Newton Capital Management Limited
- ( ) Newton Investment Management Limited
- ( ) Standish Mellon Asset Management Company LLC( ) Urdang Securities Management, Inc.
- () Urdang Capital Management, Inc.
- ( ) Walter Scott & Partners Limited
- The Item 3 classification of each of the subsidiaries listed below is "Item 3(a) broker or dealer registered under Section 15 of the ACT (15 U.S.C. 78c) or Section 240.13d-1(b)(1)(ii)(B)"
  - ( ) MBSC Securities Corporation
  - ( ) Pershing LLC
- (D) The Item 3 classification of each of the subsidiaries listed below is "Item 3(g) a parent holding company or control person in accordance with Section 240.13d-1(b)(1)(ii)(G)"
  - The Bank of New York Mellon Corporation
  - ( ) B.N.Y. Holdings (Delaware) Corporation (parent holding company of BNY Mellon Trust of Delaware)
  - (X) BNY Separate Account Services, Inc. (parent holding company of Lockwood Advisors, Inc.)
  - ( ) Insight Investment Management Limited (parent holding company of Insight Investment Management (Global) Limited)
  - (X) MAM (MA) Holding Trust (parent holding company of Standish Mellon Asset Management Company LLC; The Boston Company Asset Management LLC)
  - (X) MBC Investments Corporation (parent holding company of Mellon Capital Management Corporation; Neptune LLC)
  - ( ) Mellon International Holdings S.A.R.L. (parent holding company of BNY Mellon International Asset Management Group Limited)
  - ( ) BNY Mellon International Asset Management Group Limited (parent holding company of Newton Management Limited; Walter Scott & Partners Limited)
    - ( ) BNY Mellon Asset Management International Holdings Limited (parent holding company of Ankura Capital Pty Limited and BNY Mellon Asset Management Japan Limited)
    - Mellon Overseas Investment Corporation (parent holding company to BNY Mellon Servicos Financeiros Distribuidora de Titulos e Valores Mobiliarios S.A. and (indirect) BNY Mellon Gestao de Patrimonio Ltda)
    - ( ) Neptune LLC (parent holding company of Mellon International Holdings S.A.R.L.)
    - ( ) Newton Management Limited (parent holding company of Newton Capital Management Limited; Newton Investment Management Limited)
    - (X) Pershing Group LLC (parent holding company of BNY Separate Account Services, Inc. and Pershing LLC)
    - ( ) The Bank of New York Mellon SA/NV (parent holding company of BNY Mellon Service Kapitalanlage-Gesellschaft mbH)

NOTE: ALL OF THE LEGAL ENTITIES LISTED UNDER (A) AND (B) ABOVE ARE DIRECT OR INDIRECT SUBSIDIARIES OF THE BANK OF NEW YORK MELLON CORPORATION. BENEFICIAL OWNERSHIP OF MORE THAN FIVE PERCENT OF THE CLASS BY ANY ONE OF THE SUBSIDIARIES OR INTERMEDIATE PARENT HOLDING COMPANIES LISTED ABOVE IS REPORTED ON A JOINT REPORTING PERSON PAGE FOR THAT SUBSIDIARY ON THE ATTACHED SCHEDULE 13G AND IS INCORPORATED IN THE TOTAL PERCENT OF CLASS REPORTED ON THE BANK OF NEW YORK MELLON CORPORATION'S REPORTING PERSON PAGE. (DO NOT ADD THE SHARES OR PERCENT OF CLASS REPORTED ON EACH JOINT REPORTING PERSON PAGE ON THE ATTACHED SCHEDULE 13G TO DETERMINE THE TOTAL PERCENT OF CLASS FOR THE BANK OF NEW YORK MELLON CORPORATION).

## POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS that each of the undersigned (each a "Company") does hereby make, constitute and appoint each of Kenneth J. Bradle, Sri Gupta, John E. Thomas, Jr., Nicholas R. Darrow, (and any other employee of The Bank of New York Mellon Corporation, or one of its affiliates, designated in writing by one of the attorneys-in-fact), acting individually, its true and lawful attorney, to execute and deliver in its name and on its behalf, whether the Company is acting

individually or as representative of others, any and all filings, be they written or oral, required to be made by the Company with respect to securities which may be deemed to be beneficially owned by the Company or under the Company's investment discretion under:

\*the Securities Exchange Act of 1934, as amended (the "Exchange Act"), including those filings required to be submitted on Form 13F, Schedule 13G and Form SH, and

\*the laws of any jurisdiction other than the United States of America, including those filings made to disclose securities holdings as required to be submitted to regulatory agencies, exchanges and/or issuers,

giving and granting unto each said attorney-in-fact power and authority to correspond with issuers, regulatory authorities, and other entities as is required in support of the filings referenced above, and to act in the premises as fully and to all intents and purposes as the Company might or could do to comply with the applicable regulations if personally present by one of its authorized signatories (including, but not limited to, instructing local counsel on a Company's behalf), hereby ratifying and confirming all that said attorney-in-fact shall lawfully do or cause to be done by virtue hereof.

THIS POWER OF ATTORNEY shall remain in full force and effect until either revoked in writing by the Company or until such time as the person or persons to whom power of attorney has been hereby granted cease(s) to be an employee of The Bank of New York Mellon Corporation or one of its affiliates.

This Power of Attorney may be executed in any number of counterparts all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the undersigned hereby execute this Agreement effective as of the date set forth below.

| Banks/Bank Holding Companies |

THE BANK OF NEW YORK MELLON CORPORATION

By: /S/ RONALD P. O'HANLEY

Ronald P. O'Hanley Vice Chairman Date: October 12, 2009

THE BANK OF NEW YORK MELLON

By: /S/ GERALD L. HASSELL

Gerald L. Hassell President

Date: October 12, 2009

THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION

By: /S/ KAREN A. BAYZ
-----Karen A. Bayz

Managing Director and Chief Financial Officer Date: October 13, 2009

BNY MELLON TRUST OF DELAWARE

By: /S/ DAVID B. KUTCH
----David B. Kutch
Chairman and
Chief Executive Officer
Date: October 12, 2009

BNY MELLON, NATIONAL ASSOCIATION

By: /S/ GERALD L. HASSELL

Gerald L. Hassell

President

Date: October 12, 2009

THE BANK OF NEW YORK MELLON

By: /S/ DONALD R. MONKS

Donald R. Monks

Vice Chairman

Date: October 12, 2009

THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION

By: /S/ JOHN A. PARK

John A. Park

Executive Vice President

Date: October 9, 2009

BNY MELLON TRUST OF DELAWARE

By: /S/ DONALD R. MONKS
----Donald R. Monks
Senior Executive Vice President

Date: October 12, 2009

Investment Advisers and/or Broker-Dealers	
ANKURA CAPITAL PTY LIMITED	PERSHING LLC
By: /S/ GREG VAUGHN	By: /S/ GARY JOHNSON
Greg Vaughn Managing Director Date: October 8, 2009	Gary Johnson Managing Director Date: December 10, 2010
BLACKFRIARS ASSET MANAGEMENT LIMITED	BLACKFRIARS ASSET MANAGEMENT LIMITED
By: /S/ HUGH HUNTER	By: /S/ MOHAMMED BHATTI
Hugh Hunter Chief Executive Officer	Mohammed Bhatti Director and Chief Operating Officer
Date: October 7, 2009	Date: October 7, 2009
BNY MELLON ARX INVESTIMENTOS LTDA	BNY MELLON ARX INVESTIMENTOS LTDA
By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA	By: /S/ MARCELO PERIERA DA SILVA
Jose Carlos Lopes Xavier De Oliveira Chief Executive Officer Date: January 4, 2010	Marcelo Periera da Silva Chief Financial Officer Date: January 4, 2010
BNY MELLON SERVICOS FINANCEIROS DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A	BNY MELLON SERVICOS FINANCEIROS DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A
By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA	By: /S/ MARCELO PERIERA DA SILVA
Jose Carlos Lopes Xavier De Oliveira Chief Executive Officer Date: January 4, 2010	Marcelo Periera da Silva Chief Financial Officer Date: January 4, 2010
BNY MELLON ARX ATIVOS FINANCEIROS LTDA	BNY MELLON ARX ATIVOS FINANCEIROS LTDA
By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA	By: /S/ MARCELO PERIERA DA SILVA
Jose Carlos Lopes Xavier De Oliveira Chief Executive Officer Date: January 4, 2010	Marcelo Periera da Silva Chief Financial Officer Date: January 4, 2010
BNY MELLON GESTAO DE PATRIMONIO LTDA	BNY MELLON GESTAO DE PATRIMONIO LTDA
By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA	By: /S/ MARCELO PERIERA DA SILVA
Jose Carlos Lopes Xavier De Oliveira Chief Executive Officer Date: January 4, 2010	Marcelo Periera da Silva Chief Financial Officer Date: January 4, 2010
THE BOSTON COMPANY ASSET MANAGEMENT	THE BOSTON COMPANY ASSET MANAGEMENT LLC
By: /S/ DAVE CAMERON	By: /S/ JOSEPH P. GENNACO

Dave Cameron

Chairman, President and

Joseph P. Gennaco

Executive Vice President

Chief Executive Officer Date: October 12, 2009

and Chief Operating Officer Date: October 12, 2009

BNY MELLON ASSET MANAGEMENT JAPAN LIMITED

BNY MELLON ASSET MANAGEMENT JAPAN LIMITED

By: /S/ SHOGO YAMAGUCHI

Shogo Yamaguchi President and Representative Director Date: December 29,2009

By: /S/ DAVID JIANG

David Jiang Chairman and

Representative Director Date: December 29,2009

THE DREYFUS CORPORATION

INSIGHT INVESTMENT (Global)

MANAGEMENT LIMITED

By: /S/ JAMES BITETTO -----

James Bitetto Corporate Secretary Date: October 7, 2009

By: /s/ CHARLES FARQUHARSON

Charles Farguharson Chief Risk Officer Date: December 04, 2009

LOCKWOOD ADVISORS, INC.

By: /S/ DON MARCHESIELLO \_\_\_\_\_

> Don Marchesiello President

Date: October 6, 2009

MBSC SECURITIES CORPORATION

MELLON CAPITAL MANAGEMENT CORPORATION

By: /S/ CHARLES J. JACKLIN

Charles J. Jacklin President and CEO

Date: October 8, 2009

By: /S/ KENNETH J. BRADLE

Kenneth J. Bradle

President

Date: October 28, 2009

NEWTON INVESTMENT MANAGEMENT LIMITED

NEWTON CAPITAL MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS \_\_\_\_\_

Andrew Downs Chief Operating Officer Date: November 6, 2009

By: /S/ ANDREW DOWNS \_\_\_\_\_\_ Andrew Downs Chief Operating Officer

Date: November 6, 2009

STANDISH MELLON ASSET MANAGEMENT COMPANY LLC

By: /S/ DESMOND MAC INTYRE \_\_\_\_\_

Desmond Mac Intyre President and CEO Date: November 19, 2009 PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA \_\_\_\_\_

Brian T. Shea Managing Director Date: October 9, 2009

URDANG CAPITAL MANAGEMENT, INC.

URDANG CAPITAL MANAGEMENT, INC.

By: /S/ RICHARD J. FERST -----

Richard J. Ferst President and Chief Operating Officer Date: October 15, 2009

By: /S/ E. TODD BRIDDELL E. Todd Briddell

Managing Director and Chief Investment Officer Date: October 15, 2009

URDANG SECURITIES MANAGEMENT, INC. URDANG SECURITIES MANAGEMENT, INC.

By: /S/ E. TODD BRIDDELL By: /S/ RICHARD J. FERST \_\_\_\_\_ -----E. Todd Briddell Richard J. Ferst President and Managing Director and Chief Investment Officer Chief Operating Office Date: October 15, 2009 Date: October 15, 2009 WALTER SCOTT & PARTNERS LIMITED WALTER SCOTT & PARTNERS LIMITED By: /S/ ANNA NICHOLL By: /S/ CAROL-ANN FRASER Anna Nicholl Carol-Ann Fraser Chief Compliance Officer Compliance Officer Date: October 8, 2009 Date: October 8, 2009 \_\_\_\_\_\_ Parent Holding Companies/Control Persons \_\_\_\_\_\_ B.N.Y. HOLDINGS (DELAWARE) CORPORATION BNY SEPARATE ACCOUNT SERVICES, INC. By: /S/ JOHN A. PARK By: /S/ BRIAN T. SHEA ----------John A. Park Brian T. Shea Senior Vice President Chairman Date: October 9, 2009 Date: October 9, 2009 BNY MELLON ASSET MANAGEMENT BNY MELLON ASSET MANAGEMENT INTERNATIONAL HOLDINGS LIMITED INTERNATIONAL HOLDINGS LIMITED By: /S/ GREG BRISK By: /S/ SHONA SPENCE ----------Greg Brisk Shona Spence Director Director Date: October 12, 2009 Date: October 15, 2009 BNY MELLON INTERNATIONAL ASSET NEPTUNE LLC MANAGEMENT GROUP LIMITED By: /S/ JEREMY N. BASSIL By: /S/ JEREMY N. BASSIL -----\_\_\_\_\_ Jeremy N. Bassil Jeremy N. Bassil Director Management Committee Member Date: October 13, 2009 Date: October 13, 2009 MAM (MA) HOLDING TRUST MBC INVESTMENTS CORPORATION By: /S/ RONALD P. O'HANLEY By: /S/ GORDON MOTTER ----------Ronald P. O'Hanley Gordon Motter President Chairman, President and CEO Date: October 9, 2009 Date: October 9, 2009 MELLON INTERNATIONAL HOLDINGS MELLON INTERNATIONAL HOLDINGS S.A.R.L. S.A.R.L. By: /S/ JON LITTLE By: /S/ EDWARD KEMP ----------Jon Little Edward Kemp Director

Manager Date: October 9, 2009

NEWTON MANAGEMENT LIMITED

By: /S/ HELENA MORRISSEY
----Helena Morrissey
Director

NEWTON MANAGEMENT LIMITED

Date: October 16, 2009

By: /S/ ANDREW DOWNS
------Andrew Downs
Director

Date: October 15, 2009 Date: November 6, 2009

MELLON OVERSEAS INVESTMENT

CORPORATION

By: /S/ JON LITTLE

-----

Jon Little Chairman, President And Chief Executive Officer

Date: December 04, 2009

BNY INTERNATIONAL FINANCING

CORPORATION

By: /S/ FRED RICCIARDI

Fred Ricciardi President

Date: August 30, 2010

INSIGHT INVESTMENT MANAGEMENT

LIMITED

By: /S/ CHARLES FARQUHARSON

Charles Farquharson Chief Risk Officer

Date: December 04, 2009

THE BANK OF NEW YORK MELLON SA/NV

By: /S/ JEAN-CHRISTOPHEMATHONET

Jean-ChristopheMathonet Managing Director

Date: October 4, 2010

\_\_\_\_\_

| Fund Administrators |

BNY MELLON SERVICE KAPITALANLAGE-GESELLSCHAFT mbH

By: /S/ CAROLINE SPECHT

-----

Caroline Specht Managing Director, Head of Business Strategy and Legal

Date: August 24, 2010

## JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) (1) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), the undersigned hereby agree to any and all joint filings required to be made on their behalf on Schedule 13G (including amendments thereto) under the Exchange Act, with respect to securities which may be deemed to be beneficially owned by them under the Exchange Act, and that this Agreement be included as an Exhibit to any such joint filing. This Agreement may be executed in any number of counterparts all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the undersigned hereby execute this Agreement effective as of the date set forth below.

\_\_\_\_\_\_

| Banks/Bank Holding Companies |

THE BANK OF NEW YORK MELLON CORPORATION

By: /S/ RONALD P. O'HANLEY

Ronald P. O'Hanley Vice Chairman

Date: October 09, 2009

THE BANK OF NEW YORK MELLON

By: /S/ GERALD L. HASSELL
Gerald L. Hassell

BNY MELLON, NATIONAL ASSOCIATION

President
Date: October 12, 2009

THE BANK OF NEW YORK MELLON

By: /S/ DONALD R. MONKS
----Donald R. Monks

President Date: October 12, 2009

Vice Chairman Date: October 12, 2009

THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION

THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION

By: /S/ KAREN A. BAYZ

By: /S/ JOHN A. PARK

Karen A. Bayz Managing Director and

John A. Park

Chief Financial Officer Date: October 13, 2009

Executive Vice President

Date: October 9, 2009

BNY MELLON TRUST OF DELAWARE

BNY MELLON TRUST OF DELAWARE

By: /S/ DAVID B. KUTCH

By: /S/ DONALD R. MONKS

David B. Kutch

Donald R. Monks

Chairman and

Senior Executive Vice President

Chief Executive Officer Date: October 12, 2009

Date: October 12, 2009

\_\_\_\_\_\_

Investment Advisers and/or Broker-Dealers \_\_\_\_\_\_

ANKURA CAPITAL PTY LIMITED

PERSHING LLC

By: /S/ GREG VAUGHN

By: /S/ GARY JOHNSON

\_\_\_\_\_

\_\_\_\_\_

Greg Vaughn Managing Director Gary Johnson Managing Director

Date: October 8, 2009

Date: December 10, 2010

BLACKFRIARS ASSET MANAGEMENT LIMITED

BLACKFRIARS ASSET MANAGEMENT LIMITED

By: /S/ HUGH HUNTER

By: /S/ MOHAMMED BHATTI

\_\_\_\_\_\_

Mohammed Bhatti

Hugh Hunter Chief Executive Officer

Director and Chief Operating

Date: October 7, 2009

Date: October 7, 2009

Officer

BNY MELLON ARX INVESTIMENTOS LTDA

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVETRA

By: /S/ MARCELO PERIERA DA SILVA

-----Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silva Chief Financial Officer

Chief Executive Officer Date: January 4, 2010

Date: January 4, 2010

BNY MELLON SERVICOS FINANCEIROS DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A

BNY MELLON SERVICOS FINANCEIROS DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA

By: /S/ MARCELO PERIERA DA SILVA

Date: January 4, 2010

Marcelo Periera da Silva

Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silve Chief Financial Officer Chief Executive Officer

Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS

BNY MELLON ARX ATIVOS FINANCEIROS T.TDA

LTDA

By: /S/ MARCELO PERIERA DA SILVA

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA

Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silva Chief Executive Officer

Date: January 4, 2010

Chief Financial Officer Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA

-----

Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silva Chief Executive Officer Chief Financial Officer

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT LLC

By: /S/ DAVE CAMERON -----

Dave Cameron Chairman, President and Chief Executive Officer Date: October 12, 2009

BNY MELLON ASSET MANAGEMENT JAPAN LIMITED

By: /S/ SHOGO YAMAGUCHI

Shogo Yamaguchi President and Representative Director Date: December 29,2009

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO \_\_\_\_\_

James Bitetto Corporate Secretary Date: October 7, 2009

LOCKWOOD ADVISORS, INC.

By: /S/ DON MARCHESIELLO

Don Marchesiello President

Date: October 6, 2009

MELLON CAPITAL MANAGEMENT CORPORATION

By: /S/ CHARLES J. JACKLIN

Charles J. Jacklin President and CEO Date: October 8, 2009

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS \_\_\_\_\_\_

Andrew Downs Chief Operating Officer Date: November 6, 2009

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ MARCELO PERIERA DA SILVA

\_\_\_\_\_

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT LLC

By: /S/ JOSEPH P. GENNACO -----

Joseph P. Gennaco Executive Vice President and Chief Operating Officer Date: October 12, 2009

BNY MELLON ASSET MANAGEMENT JAPAN

LIMITED

By: /S/ DAVID JIANG

David Jiang Chairman and

Representative Director Date: December 29,2009

INSIGHT INVESTMENT (Global)

MANAGEMENT LIMITED

By: /s/ CHARLES FARQUHARSON

\_\_\_\_\_\_

Charles Farguharson Chief Risk Officer Date: December 04, 2009

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

\_\_\_\_\_

Kenneth J. Bradle

President

Date: October 28, 2009

NEWTON CAPITAL MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS

\_\_\_\_\_\_

Andrew Downs

Chief Operating Officer Date: November 6, 2009

STANDISH MELLON ASSET MANAGEMENT COMPANY LLC

By: /S/ DESMOND MAC INTYRE -----

Desmond Mac Intyre President and CEO Date: November 19, 2009

URDANG CAPITAL MANAGEMENT, INC.

By: /S/ RICHARD J. FERST \_\_\_\_\_\_ Richard J. Ferst President and Chief Operating Officer Date: October 15, 2009

URDANG SECURITIES MANAGEMENT, INC.

By: /S/ E. TODD BRIDDELL .\_\_\_\_\_ E. Todd Briddell Managing Director and Chief Investment Officer Date: October 15, 2009

WALTER SCOTT & PARTNERS LIMITED

By: /S/ ANNA NICHOLL -----Anna Nicholl Chief Compliance Officer Date: October 8, 2009

PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA \_\_\_\_\_ Brian T. Shea Managing Director Date: October 9, 2009

URDANG CAPITAL MANAGEMENT, INC.

By: /S/ E. TODD BRIDDELL \_\_\_\_\_\_ E. Todd Briddell Managing Director and Chief Investment Officer Date: October 15, 2009

URDANG SECURITIES MANAGEMENT, INC.

By: /S/ RICHARD J. FERST Richard J. Ferst President and Chief Operating Office Date: October 15, 2009

WALTER SCOTT & PARTNERS LIMITED

By: /S/ CAROL-ANN FRASER \_\_\_\_\_ Carol-Ann Fraser Compliance Officer Date: October 8, 2009

\_\_\_\_\_\_ Parent Holding Companies/Control Persons

B.N.Y. HOLDINGS (DELAWARE) CORPORATION BNY SEPARATE ACCOUNT SERVICES, INC.

By: /S/ JOHN A. PARK \_\_\_\_\_ John A. Park Senior Vice President Date: October 9, 2009

BNY MELLON ASSET MANAGEMENT INTERNATIONAL HOLDINGS LIMITED

By: /S/ GREG BRISK Greg Brisk Director Date: October 12, 2009

BNY MELLON INTERNATIONAL ASSET MANAGEMENT GROUP LIMITED

By: /S/ JEREMY N. BASSIL -----Jeremy N. Bassil Director Date: October 13, 2009

By: /S/ BRIAN T. SHEA \_\_\_\_\_\_ Brian T. Shea Chairman Date: October 9, 2009

BNY MELLON ASSET MANAGEMENT INTERNATIONAL HOLDINGS LIMITED

By: /S/ SHONA SPENCE Shona Spence Director Date: October 15, 2009

NEPTUNE LLC

By: /S/ JEREMY N. BASSIL -----Jeremy N. Bassil Management Committee Member Date: October 13, 2009

MAM (MA) HOLDING TRUST MBC INVESTMENTS CORPORATION By: /S/ RONALD P. O'HANLEY
----Ronald P. O'Hanley
President

Date: October 9, 2009

MELLON INTERNATIONAL HOLDINGS S.A.R.L.

By: /S/ JON LITTLE

Jon Little Manager

Date: October 9, 2009

NEWTON MANAGEMENT LIMITED

By: /S/ HELENA MORRISSEY

Helena Morrissey

Director
Date: October 15, 2009

MELLON OVERSEAS INVESTMENT CORPORATION

By: /S/ JON LITTLE

Jon Little Chairman, President And Chief Executive Officer

Date: December 04, 2009

BNY INTERNATIONAL FINANCING CORPORATION

By: /S/ FRED RICCIARDI

Fred Ricciardi President

Date: August 30, 2010

By: /S/ GORDON MOTTER

Gordon Motter

Chairman, President and CEO

Date: October 9, 2009

MELLON INTERNATIONAL HOLDINGS

S.A.R.L.

By: /S/ EDWARD KEMP

Edward Kemp Director

Date: October 16, 2009

NEWTON MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS

-----

Andrew Downs Director

Date: November 6, 2009

INSIGHT INVESTMENT MANAGEMENT

LIMITED

By: /S/ CHARLES FARQUHARSON

Charles Farquharson Chief Risk Officer

Date: December 04, 2009

THE BANK OF NEW YORK MELLON SA/NV

By: /S/ JEAN-CHRISTOPHEMATHONET

Jean-ChristopheMathonet Managing Director

Date: October 4, 2010

| Fund Administrators |

BNY MELLON SERVICE KAPITALANLAGE-GESELLSCHAFT mbH

By: /S/ CAROLINE SPECHT

\_\_\_\_\_

Caroline Specht
Managing Director, Head of

Business Strategy and Legal

Date: August 24, 2010