Thermon Group Holdings, Inc.
Form SC 13G/A
February 02, 2016

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934
(Amendment No.1)*

NAME OF ISSUER: Thermon Group Holdings, Inc.

TITLE OF CLASS OF SECURITIES: Common Stock

CUSIP NUMBER: 88362T103

DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: December 31, 2015

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: 88362T103

(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 Beneficially Owned by Each Reporting Person With	(5) Sole Voting Power	2,063,419
	(6) Shared Voting Power	624
	(7) Sole Dispositive Power	2,070,441
	(8) Shared Dispositive Power	624

(9) Aggregate Amount Beneficially Owned by Each Reporting Person 2,071,065

(10) Check if the Aggregated Amount in Row (9) Excludes Certain

Shares (see Instructions) ( )

(11) Percent of Class Represented by Amount in Row (9) 6.43%

(12) Type of Reporting Person (See Instructions) HC

SCHEDULE 13G

Item 1(a) Name of Issuer: Thermon Group Holdings, Inc.

Item 1(b) Address of Issuer's Principal Executive Office:

100 Thermon Drive
San Marcos, Texas 78666
United States

Item 2(a) Name of Person Filing: The Bank of New York Mellon Corporation and any other reporting person(s) identified on the second part of the cover page(s) and Exhibit I

Item 2(b) Address of Principal Business Office, or if None, Residence:
C/O The Bank of New York Mellon Corporation
225 Liberty Street
New York, New York 10286
(for all reporting persons)

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

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

CUSIP Number 88362T103

Item 3 See Item 12 of cover page(s) ("Type of Reporting Person ") for each reporting person.

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)

Item 4 Ownership: See Item 5 through 9 and 11 of cover page(s) as to each reporting person.

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 2, 2016

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 "Item 3(j)A non-U.S. institution in accordance with Rule 240.13d-1 (b)(1)(ii)(J)"

(X) The Bank of New York Mellon
( ) 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 "Item 3(j) A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J)"

( ) BNY Mellon ARX Investimentos Ltda (parent holding company of BNY Mellon 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
( ) Lockwood Advisors, Inc.
(X) Mellon Capital Management Corporation
( ) Newton Capital Management Limited
( ) Newton Investment Management Limited
( ) Standish Mellon Asset Management Company LLC
( ) CenterSquare Investment Management, Inc.
( ) CenterSquare Investment Management Holdings, Inc.
( ) Walter Scott & Partners Limited
( ) BNY Mellon Wealth Management, Advisory Services, Inc.
( ) BNY Mellon Trust Company(Cayman) Limited
( ) BNY Mellon Investment Management Cayman Limited
( ) Cutwater Asset Management Corporation
( ) Cutwater Investor Services Corporation

(C) 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 "Item 3(j) A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J)"

( ) BNY Mellon Capital Markets, LLC.
( ) 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 Rule 13d-1(b)(1)(ii)(G)"

(X) The Bank of New York Mellon Corporation
( ) B.N.Y. Holdings (Delaware) Corporation (parent holding company of BNY Mellon Trust of Delaware)
( ) 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;BNY Mellon Investment Management (Jersey) Ltd.)
( ) BNY Mellon Investment Management (Jersey) Ltd. (parent holding company of BNY Mellon Investment Management (Europe) Ltd.)
( ) BNY Mellon Investment Management (Europe) Ltd. (parent holding company of BNY Mellon Investment Management Europe Holdings Ltd.; BNY Mellon Investment Management Cayman Limited)
( ) BNY Mellon Investment Management Europe Holdings Ltd. (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; BNY Mellon International Asset Management (Holdings) Limited; Insight Investment Management Limited)
( ) BNY Mellon Asset Management International Holdings Limited (parent holding company of 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 Mellon Canada Holding Company)
( ) Newton Management Limited (parent holding company of Newton Capital Management Limited; Newton Investment Management Limited)
( ) Pershing Group LLC (parent holding company of Lockwood Advisors, Inc. and Pershing LLC)
( ) The Bank of New York Mellon SA/NV (parent holding company of BNY Mellon Service Kapitalanlage-Gesellschaft mbH)
( ) BNY Mellon International Asset Management (Holdings) Limited (parent holding company of BNY Mellon International Asset Management (Holdings) No. 1 Limited)
( ) BNY Mellon International Asset Management (Holdings) No. 1 Limited (parent holding company of Walter Scott & Partners Limited)
( ) Mellon Canada Holding Company (parent holding company of BNY Mellon Wealth Management, Advisory Services, Inc)
( ) BNY International Financing Corporation (parent holding company of BNY Mellon Trust Company (Cayman) Limited)
( ) BNY Capital Markets Holdings, Inc. (parent holding company of BNY Mellon Capital Markets, LLC.)
( ) Cutwater Holdings LLC (parent holding company of Cutwater Asset Management Corporation; Cutwater Investor Services Corporation)

NOTE: ALL OF THE LEGAL ENTITIES LISTED UNDER (A), (B), (C) AND (D) 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, 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	BNY MELLON, NATIONAL ASSOCIATION
By: /S/ RONALD P. O'HANLEY Ronald P. O'Hanley Vice Chairman	By: /S/ GERALD L. HASSELL Gerald L. Hassell President
Date: October 12, 2009	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

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/ KAREN A. BAYZ

Karen A. Bayz
Managing Director and
Chief Financial Officer
Date: October 13, 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/ DAVID B. KUTCH

David B. Kutch
Chairman and
Chief Executive Officer
Date: October 12, 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

PERSHING LLC

By: /S/ GARY JOHNSON

Gary Johnson
Managing Director
Date: December 10, 2010

BNY MELLON CAPITAL MARKETS

By: /S/ GARY STRUMERYER

Gary Strumeyer
President
Date: January 31, 2014

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA

Jose Carlos Lopes Xavier De Oliveira
Chief Executive Officer
Date: January 4, 2010

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ MARCELO PERIERA DA SILVA

Marcelo Periera da Silva
Chief Financial Officer
Date: January 4, 2010

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

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA

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

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

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA
Jose Carlos Lopes Xavier De Oliveira
Chief Executive Officer
Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS LTDA

By: /S/ MARCELO PERIERA DA SILVA
Marcelo Periera da Silva
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
Chief Executive Officer
Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ MARCELO PERIERA DA SILVA
Marcelo Periera da Silva
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

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

BNY MELLON ASSET MANAGEMENT JAPAN LIMITED

By: /S/ DAVID JIANG
David Jiang
Chairman and
Representative Director
Date: December 29,2009

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO
James Bitetto
Corporate Secretary
Date: October 7, 2009

INSIGHT INVESTMENT (Global) MANAGEMENT LIMITED

By: /s/ CHARLES FARQUHARSON
Charles Farquharson
Chief Risk Officer
Date: December 04, 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

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

Kenneth J. Bradle
President
Date: October 28, 2009

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS

Andrew Downs
Chief Operating Officer
Date: November 6, 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

PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA

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

CENTERSQUARE INVESTMENT MANAGEMENT HOLDINGS, INC.

By: /S/ R. JOSEPH LAW

R. Joseph Law
Chief Financial and
Compliance Officer
Date: June 26, 2013

CENTERSQUARE INVESTMENT MANAGEMENT, INC.

By: /S/ R. JOSEPH LAW

R. Joseph Law
Chief Financial and
Compliance Officer
Date: June 26, 2013

WALTER SCOTT & PARTNERS LIMITED

By: /S/ ANNA NICHOLL

Anna Nicholl
Chief Compliance Officer
Date: October 8, 2009

WALTER SCOTT & PARTNERS LIMITED

By: /S/ CAROL-ANN FRASER

Carol-Ann Fraser
Compliance Officer
Date: October 8, 2009

BNY MELLON WEALTH MANAGEMENT, ADVISORY SERVICES, INC.

By: /S/ MARIE-CLAUDE LEPAGE

Marie-Claude Lepage
Chief Compliance Officer
Date: May 16, 2013

BNY MELLON TRUST COMPANY (CAYMAN) LIMITED

By: /S/ DONALD J. HEBERLE

Donald J. Heberle
Executive Vice President
Date: December 5, 2012

BNY MELLON INVESTMENT MANAGEMENT CAYMAN LTD.

By: /S/ BRENDON J. DONNELLAN
Brendon J.Donnellan
Director
Date: June 16, 2013

CUTWATER ASSET MANAGEMENT CORPORATION

By: /S/ CLIFFORD CORSO
Clifford Corso
Chief Executive Officer
Date: March 16, 2015

CUTWATER INVESTOR SERVICES CORPORATION

By: /S/ CLIFFORD CORSO
Clifford Corso
Chief Executive Officer
Date: March 16, 2015

Parent Holding Companies/Control Persons

B.N.Y. HOLDINGS (DELAWARE) CORPORATION

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 ASSET MANAGEMENT INTERNATIONAL HOLDINGS LIMITED

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

BNY MELLON INTERNATIONAL ASSET MANAGEMENT GROUP LIMITED

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

MAM (MA) HOLDING TRUST

By: /S/ RONALD P. O'HANLEY
Ronald P. O'Hanley
President
Date: October 9, 2009

MBC INVESTMENTS CORPORATION

By: /S/ GORDON MOTTER
Gordon Motter
Chairman, President and CEO
Date: October 9, 2009

NEWTON MANAGEMENT LIMITED

By: /S/ HELENA MORRISSEY
Helena Morrissey
Director
Date: October 15, 2009

NEWTON MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS
Andrew Downs
Director
Date: November 6, 2009

MELLON OVERSEAS INVESTMENT CORPORATION

By: /S/ JON LITTLE
Jon Little
Chairman, President And Chief Executive Officer
Date: December 04, 2009

INSIGHT INVESTMENT MANAGEMENT LIMITED

By: /S/ CHARLES FARQUHARSON
Charles Farquharson
Chief Risk Officer

Date: December 04, 2009

BNY INTERNATIONAL FINANCING CORPORATION

By: /S/ FRED RICCIARDI
Fred Ricciardi
President
Date: August 30, 2010

THE BANK OF NEW YORK MELLON SA/NV

By: /S/ JEAN-CHRISTOPHEMATHONET
Jean-ChristopheMathonet
Managing Director
Date: October 4, 2010

BNY MELLON INVESTMENT MANAGEMENT EUROPE HOLDINGS LIMITED

By: /S/ GREG BRISK
Greg Brisk
Director
Date: March 14, 2013

BNY MELLON INVESTMENT MANAGEMENT (EUROPE)LIMITED

By: /S/ GREG BRISK
Greg Brisk
Director
Date: March 14, 2013

BNY MELLON INVESTMENT MANAGEMENT (JERSEY)LIMITED

By: /S/ GREG BRISK
Greg Brisk
Director
Date: March 14, 2013

BNY CAPITAL MARKETS HOLDINGS, INC.

By: /S/ THOMAS P. GIBBONS
Thomas P. Gibbons
Vice Chairman & CFO
Date: January 31, 2014

BNY MELLON INTERNATIONAL ASSET MANAGEMENT (HOLDINGS) LIMITED

By: /S/ GREG BRISK
Greg Brisk
Director
Date: April 5, 2013

BNY MELLON INTERNATIONAL ASSET MANAGEMENT (HOLDINGS) No. 1 LIMITED

By: /S/ GREG BRISK
Greg Brisk
Director
Date: April 5, 2013

MELLON CANADA HOLDING COMPANY

By: /S/ JOHN REHOB

John Rehob
President
Date: August 06, 2013

BNY INTERNATIONAL FINANCING CORPORATION

CUTWATER HOLDINGS LLC

By: /S/ CLIFFORD CORSO

Clifford Corso
Chief Executive Officer
Date: March 16, 2015

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

BNY MELLON, NATIONAL ASSOCIATION

By: /S/ GERALD L. HASSELL

Ronald P. O'Hanley
Vice Chairman
Date: October 09, 2009

Gerald L. Hassell
President
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

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/ KAREN A. BAYZ
Karen A. Bayz
Managing Director and
Chief Financial Officer
Date: October 13, 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/ DAVID B. KUTCH
David B. Kutch
Chairman and
Chief Executive Officer
Date: October 12, 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

PERSHING LLC

By: /S/ GARY JOHNSON
Gary Johnson
Managing Director
Date: December 10, 2010

BNY MELLON CAPITAL MARKETS

By: /S/ GARY STRUMERYER
Gary Strumeyer
President
Date: January 31, 2014

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA
Jose Carlos Lopes Xavier De Oliveira
Chief Executive Officer
Date: January 4, 2010

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ MARCELO PERIERA DA SILVA
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

Jose Carlos Lopes Xavier De Oliveira
Chief Executive Officer
Date: January 4, 2010

By: /S/ MARCELO PERIERA DA SILVA

Marcelo Periera da Silva
Chief Financial Officer
Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS LTDA

By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA

Jose Carlos Lopes Xavier De Oliveira
Chief Executive Officer
Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS LTDA

By: /S/ MARCELO PERIERA DA SILVA

Marcelo Periera da Silva
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
Chief Executive Officer
Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ MARCELO PERIERA DA SILVA

Marcelo Periera da Silva
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

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/ SHOGO YAMAGUCHI

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

BNY MELLON ASSET MANAGEMENT JAPAN LIMITED

By: /S/ DAVID JIANG

David Jiang
Chairman and
Representative Director
Date: December 29,2009

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO

James Bitetto
Corporate Secretary
Date: October 7, 2009

INSIGHT INVESTMENT (Global) MANAGEMENT LIMITED

By: /s/ CHARLES FARQUHARSON

Charles Farquharson
Chief Risk Officer
Date: December 04, 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

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

Kenneth J. Bradle
President
Date: October 28, 2009

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS

Andrew Downs
Chief Operating Officer
Date: November 6, 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

PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA

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

CENTERSQUARE INVESTMENT MANAGEMENT HOLDINGS, INC.
By: /S/ R. JOSEPH LAW

R. Joseph Law
Chief Financial and
Compliance Officer
Date: June 26, 2013

CENTERSQUARE INVESTMENT MANAGEMENT, INC.
By: /S/ R. JOSEPH LAW

R. Joseph Law
Chief Financial and
Compliance Officer
Date: June 26, 2013

WALTER SCOTT & PARTNERS LIMITED

By: /S/ ANNA NICHOLL

Anna Nicholl
Chief Compliance Officer
Date: October 8, 2009

WALTER SCOTT & PARTNERS LIMITED

By: /S/ CAROL-ANN FRASER

Carol-Ann Fraser
Compliance Officer
Date: October 8, 2009

BNY MELLON WEALTH MANAGEMENT, ADVISORY SERVICES, INC.

By: /S/ MARIE-CLAUDE LEPAGE

Marie-Claude Lepage

BNY MELLON TRUST COMPANY (CAYMAN) LIMITED

By: /S/ DONALD J. HEBERLE

Donald J. Heberle

Chief Compliance Officer
Date: May 16, 2013

Executive Vice President
Date: December 5, 2012

BNY MELLON INVESTMENT MANAGEMENT CAYMAN LTD.

By: /S/ BRENDON J. DONNELLAN
Brendon J.Donnellan
Director
Date: June 16, 2013

CUTWATER ASSET MANAGEMENT CORPORATION

By: /S/ CLIFFORD CORSO
Clifford Corso
Chief Executive Officer
Date: March 16, 2015

CUTWATER INVESTOR SERVICES CORPORATION

By: /S/ CLIFFORD CORSO
Clifford Corso
Chief Executive Officer
Date: March 16, 2015

Parent Holding Companies/Control Persons

B.N.Y. HOLDINGS (DELAWARE) CORPORATION

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 ASSET MANAGEMENT INTERNATIONAL HOLDINGS LIMITED

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

BNY MELLON INTERNATIONAL ASSET MANAGEMENT GROUP LIMITED

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

MAM (MA) HOLDING TRUST

By: /S/ RONALD P. O'HANLEY
Ronald P. O'Hanley
President

MBC INVESTMENTS CORPORATION

By: /S/ GORDON MOTTER
Gordon Motter
Chairman, President and CEO

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

BNY MELLON INVESTMENT MANAGEMENT EUROPE HOLDINGS LIMITED

By: /S/ GREG BRISK

Greg Brisk
Director
Date: March 14, 2013

BNY MELLON INVESTMENT MANAGEMENT (JERSEY)LIMITED

By: /S/ GREG BRISK

Greg Brisk
Director
Date: March 14, 2013

BNY MELLON INTERNATIONAL ASSET MANAGEMENT (HOLDINGS) LIMITED
By: /S/ GREG BRISK

Greg Brisk
Director
Date: April 5, 2013

Date: October 9, 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

BNY MELLON INVESTMENT MANAGEMENT (EUROPE)LIMITED

By: /S/ GREG BRISK

Greg Brisk
Director
Date: March 14, 2013

BNY CAPITAL MARKETS HOLDINGS, INC.

By: /S/ THOMAS P. GIBBONS

Thomas P. Gibbons
Vice Chairman & CFO
Date: January 31, 2014

BNY MELLON INTERNATIONAL ASSET MANAGEMENT (HOLDINGS) No. 1 LIMITED
By: /S/ GREG BRISK

Greg Brisk
Director
Date: April 5, 2013

MELLON CANADA HOLDING COMPANY

By: /S/ JOHN REHOB

John Rehob
President
Date: August 06, 2013

BNY INTERNATIONAL FINANCING CORPORATION

CUTWATER HOLDINGS LLC

By: /S/ CLIFFORD CORSO

Clifford Corso
Chief Executive Officer
Date: March 16, 2015

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