GEOSPACE TECHNOLOGIES CORP Form SC 13G/A June 09, 2016

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No.2)*

NAME OF ISSUER: Geospace Technologies Corporation

TITLE OF CLASS OF SECURITIES: Common Stock

CUSIP NUMBER: 37364X109

DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: May 31, 2016

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: 37364X109

- (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

(3)	SEC use only				
(4)	Citizenship or Place of	Orga	nization	New	York
Number of Shares Beneficially Owned by Each Reporting Person With		(5)	Sole Voting Power	587	7,719
		(6)	Shared Voting Power		0
		(7)	Sole Dispositive Power	383	3 , 962
		(8)	Shared Dispositive Power	266	5,571
	gregate Amount Beneficia Each Reporting Person	lly O	wned	653	3 , 544

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

Edgar Filing: GEOSPACE TECHNOLOGIES CORP - Form	SC 13G/A
Shares (see Instructions)	()
(11) Percent of Class Represented by Amount in Row (9)	4.90%
(12) Type of Reporting Person (See Instructions)	НС
SCHEDULE 13G	
Item 1(a) Name of Issuer: Geospace Technologies Corporation	n
<pre>Item 1(b) Address of Issuer's Principal Executive Office:</pre>	
Item 2(a) Name of Person Filing: The Bank of New York Mello and any other reporting pe identified on the second p cover page(s) and Exhibit	erson(s) part of the
Item 2(b) Address of Principal Business Office, or if None, C/O The Bank of New York Mell 225 Liberty Street New York, New York 10286 (for all reporting person	on Corporation
Item 2(c) Citizenship: See cover page and Exhibit	I
Item 2(d) Title of Class of Securities: Common Stock	
CUSIP Number 37364X109	
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 1 Securities Exchange Act of 1934	.5 of the
BK = Bank as defined in Section 3(a)(6) of the S Exchange Act of 1934	Securities
<pre>IV = Investment Company registered under Section Investment Company Act of 1940</pre>	n 8 of the
<pre>IA = Investment Advisor registered under Section Investment Advisors Act of 1940</pre>	203 of the
<pre>EP = Employee Benefit Plan, Pension Fund which i to the provisions of the Employee Retiremen Security Act of 1974 or Endowment Fund; see Section 240.13 - d(1)(b)(1)(ii)(F)</pre>	it Income
HC = Parent Holding Company, in accordance with 240.13-d(1)(b)(1)(ii)(G)	Section
<pre>Item 4 Ownership: See Item 5 through 9 and 11 of cover page(s)</pre>	

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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 (X)

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:

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

N/A

13d-1(k)(1) promulgated under the Securities and Exchange Act of 1934, as amended.

Date: June 09, 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):

- 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
- 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)
 - The Boston Company Asset Management LLC (X)
 - (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 (X) 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)
 - (X) 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.

			-
I	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

BNY MELLON, NATIONAL ASSOCIATION

By: /S/ GERALD L. HASSELL

Gerald L. Hassell

President

Date: October 12, 2009

THE BANK OF NEW YORK MELLON

THE BANK OF NEW YORK MELLON

By: /S/ GERALD L. HASSELL By: /S/ DONALD R. MONKS _____ Gerald L. Hassell Donald R. Monks President Vice Chairman Date: October 12, 2009 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 John A. Park Executive Vice President Managing Director and Chief Financial Officer Date: October 13, 2009 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 Senior Executive Vice President Chairman and Chief Executive Officer Date: October 12, 2009 Date: October 12, 2009 ______ Investment Advisers and/or Broker-Dealers BNY MELLON CAPITAL MARKETS PERSHING LLC By: /S/ GARY JOHNSON By: /S/ GARY STRUMERYER -----_____ Gary Johnson Gary Strumeyer Managing Director President Date: December 10, 2010 Date: January 31, 2014 BNY MELLON ARX INVESTIMENTOS LTDA BNY MELLON ARX INVESTIMENTOS LTDA By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA ______ Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silva Chief Executive Officer Chief Financial Officer Date: January 4, 2010 Date: January 4, 2010 BNY MELLON SERVICOS FINANCEIROS BNY MELLON SERVICOS FINANCEIROS DISTRIBUIDORA DE TITULOS E VALORES

DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A MOBILIARIOS S.A By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silva

Chief Executive Officer Chief Financial Or
Tanuary 4, 2010 Date: January 4, 2010

Date: January 4, 2010

Chief Financial Officer

BNY MELLON ARX ATIVOS FINANCEIROS T₁TDA

By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA

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

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA

Jose Carlos Lopes Xavier De Oliveira Chief Executive Officer

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT T.T.C

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

Shoqo Yamaquchi 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

BNY MELLON ARX ATIVOS FINANCEIROS LTDA

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

Marcelo Periera da Silva Chief Financial Officer

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT T.T.C.

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 Farquharson Chief Risk Officer Date: December 04, 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

STANDISH MELLON ASSET MANAGEMENT COMPANY LLC

By: /S/ DESMOND MAC INTYRE

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

CENTERSQUARE INVESTMENT MANAGEMENT HOLDINGS, 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

BNY MELLON WEALTH MANAGEMENT, ADVISORY SERVICES, INC.

By: /S/ MARIE-CLAUDE LEPAGE
----Marie-Claude Lepage
Chief Compliance Officer
Date: May 16, 2013

BNY MELLON INVESTMENT MANAGEMENT

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

Kenneth J. Bradle President

President

Date: October 28, 2009

NEWTON CAPITAL MANAGEMENT LIMITED

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

Chief Operating Officer Date: November 6, 2009

PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA

Brian T. Shea

Managing Director

Date: October 9, 2009

CENTERSQUARE INVESTMENT MANAGEMENT,

By: /S/ R. JOSEPH LAW

----R. Joseph Law
Chief Financial and
Compliance Officer

Date: June 26, 2013

WALTER SCOTT & PARTNERS LIMITED

BNY MELLON TRUST COMPANY (CAYMAN) LIMITED

By: /S/ DONALD J. HEBERLE

Donald J. Heberle

Executive Vice President

Date: December 5, 2012

CUTWATER ASSET MANAGEMENT

CAYMAN LTD. CORPORATION

By: /S/ BRENDON J. DONNELLAN

Director

Date: June 16, 2013

Brendon J.Donnellan

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

INTERNATIONAL HOLDINGS LIMITEL

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

MBC INVESTMENTS CORPORATION

By: /S/ RONALD P. O'HANLEY

Ronald P. O'Hanley

President

Date: October 9, 2009

By: /S/ GORDON MOTTER

Gordon Motter

Chairman, President and CEO

Date: October 9, 2009

NEWTON MANAGEMENT LIMITED 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

MELLON CANADA HOLDING COMPANY

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

MANAGEMENI (HOLDINGS) NO. I LIMITE

By: /S/ GREG BRISK

Greg Brisk Director

Date: April 5, 2013

BNY INTERNATIONAL FINANCING

CORPORATION

By: /S/ JOHN REHOB

John Rehob President

Date: August 06, 2013

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 |

2 Zame, Zami notatny companies

THE BANK OF NEW YORK MELLON CORPORATION

By: /S/ RONALD P. O'HANLEY By:

Ronald P. O'Hanley Vice Chairman

Date: October 09, 2009

By: /S/ GERALD L. HASSELL

BNY MELLON, NATIONAL ASSOCIATION

Gerald L. Hassell President

Date: October 12, 2009

THE BANK OF NEW YORK MELLON THE BANK OF NEW YORK MELLON By: /S/ GERALD L. HASSELL By: /S/ DONALD R. MONKS _____ _____ Gerald L. Hassell Donald R. Monks President Vice Chairman Date: October 12, 2009 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 John A. Park Managing Director and Executive Vice President Chief Financial Officer Date: October 13, 2009 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 ______ PERSHING LLC BNY MELLON CAPITAL MARKETS By: /S/ GARY JOHNSON By: /S/ GARY STRUMERYER -----Gary Johnson Gary Strumeyer Managing Director President Date: December 10, 2010 Date: January 31, 2014 BNY MELLON ARX INVESTIMENTOS LTDA BNY MELLON ARX INVESTIMENTOS LTDA By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA _____ Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silva Chief Executive Officer Chief Financial Officer Date: January 4, 2010 Date: January 4, 2010 BNY MELLON SERVICOS FINANCEIROS BNY MELLON SERVICOS FINANCEIROS DISTRIBUIDORA DE TITULOS E VALORES DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A MOBILIARIOS S.A By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA

T₁TDA

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

Date: January 4, 2010

Chief Financial Officer Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS

BNY MELLON ARX ATIVOS FINANCEIROS LTDA

By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA

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

Date: January 4, 2010

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ JOSE CARLOS LOPES XAVIER By: /S/ MARCELO PERIERA DA SILVA DE OLIVEIRA

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

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

Chief Financial Officer

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT T.T.C.

By: /S/ DAVE CAMERON ______

Dave Cameron

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

LIMITED

LLC

THE BOSTON COMPANY ASSET MANAGEMENT

By: /S/ JOSEPH P. GENNACO _____

> Joseph P. Gennaco Executive Vice President and Chief Operating Officer

BNY MELLON ASSET MANAGEMENT JAPAN

Date: October 12, 2009

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

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

NEWTON INVESTMENT 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

CENTERSQUARE INVESTMENT MANAGEMENT HOLDINGS, 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

BNY MELLON WEALTH MANAGEMENT, ADVISORY SERVICES, INC.

By: /S/ MARIE-CLAUDE LEPAGE
----Marie-Claude Lepage
Chief Compliance Officer

Date: May 16, 2013

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

PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA

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

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/ CAROL-ANN FRASER

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

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

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

MBC INVESTMENTS CORPORATION

By: /S/ RONALD P. O'HANLEY

Ronald P. O'Hanley

President

Date: October 9, 2009

By: /S/ GORDON MOTTER

Gordon Motter
Chairman, President and CEO

Dala and Calabara O 2000

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

MELLON CANADA HOLDING COMPANY

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

BNY INTERNATIONAL FINANCING

CORPORATION

By:	/S/ JOHN REHOB			
Dat	John Rehob President e: August 06, 2013			
CUT	WATER HOLDINGS LLC			
By:	/S/ CLIFFORD CORSO			
	Clifford Corso Chief Executive Officer Date: March 16, 2015			
 	Fund Administrators			
	MELLON SERVICE KAPITALANLAGE- ELLSCHAFT mbH			
By:	/S/ CAROLINE SPECHT			
Dat	Caroline Specht Managing Director, Head of Business Strategy and Legal e: August 24, 2010			