CORELOGIC, INC. Form SC 13G January 26, 2016

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

SCHEDULE 13G

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

NAME OF ISSUER: CoreLogic, Inc.

TITLE OF CLASS OF SECURITIES: Common Stock

CUSIP NUMBER: 21871D103

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: 21871D103

- (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 4,329,071
Beneficially
Owned by Each (6) Shared Voting Power 1,175
Reporting Person
With (7) Sole Dispositive Power 4,443,772

- (8) Shared Dispositive Power 78,610
- (9) Aggregate Amount Beneficially Owned by Each Reporting Person 4,635,418
- (10) Check if the Aggregated Amount in Row (9) Excludes Certain

		Edgar Filing: CO	RELOGIC, INC Form SC 13G			
Share	es (see In	structions)		()		
(11) Percent of Class Represented by Amount in Row (9)						
(12) Type	of Report	ing Person (See	Instructions)	HC		
		SCH	EDULE 13G			
Item 1(a)	Name o	f Issuer: Cor	eLogic, Inc.			
Item 1(b)	Addres	4 I	incipal Executive Office: 0 Pacifica rvine, CA 92618-7471 nited States			
Item 2(a)	Name o	f Person Filing:	The Bank of New York Mellor and any other reporting per identified on the second pa cover page(s) and Exhibit	rson(s) art of the		
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)	Citize	enship:	See cover page and Exhibit :	Ι		
Item 2(d)	Item 2(d) Title of Class of Securities: Common Stock					
CUSIP Number 21871D103						
Item 3	<pre>Item 3 See Item 12 of cover page(s) ("Type of Reporting</pre>					
	Symbol Category					
	BD =		er registered under Section 19 hange Act of 1934	of the		
	BK =	Bank as define Exchange Act o	d in Section 3(a)(6) of the Sef 1934	ecurities		
	IV =		pany registered under Section pany Act of 1940	8 of the		
	IA =		isor registered under Section isors Act of 1940	203 of the		
	EP =	to the provisi Security Act o	it Plan, Pension Fund which is ons of the Employee Retirement f 1974 or Endowment Fund; see - d(1)(b)(1)(ii)(F)	-		
	HC =	Parent Holding 240.13-d(1)(b)	Company, in accordance with (1)(ii)(G)	Section		
Item 4 Ov	wnership:	See Item 5 thro	ugh 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:

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: January 26, 2016

THE BANK OF NEW YORK MELLON CORPORATION

By: /s/ NICHOLAS R. DARROW

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

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
 - (X) 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
 - (X) 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
 - (X) 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	- 1

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 Vice Chairman President 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
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 Date: January 4, 2010

Chief Financial Officer Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS

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

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

BNY MELLON GESTAO DE PATRIMONIO LTDA

DE OLIVEIRA

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

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

Chief Financial Officer

Date: January 4, 2010

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT

THE BOSTON COMPANY ASSET MANAGEMENT LLC

By: /S/ DAVE CAMERON

Date: October 12, 2009

By: /S/ JOSEPH P. GENNACO

_____ Joseph P. Gennaco

Dave Cameron Chairman, President and Chief Executive Officer

Executive Vice President and Chief Operating Officer Date: October 12, 2009

BNY MELLON ASSET MANAGEMENT JAPAN

BNY MELLON ASSET MANAGEMENT JAPAN LIMITED

By: /S/ SHOGO YAMAGUCHI

LIMITED

By: /S/ DAVID JIANG

Chairman and

David Jiang

Shogo Yamaguchi President and Representative Director

Representative Director Date: December 29,2009

THE DREYFUS CORPORATION

Date: December 29,2009

INSIGHT INVESTMENT (Global) MANAGEMENT LIMITED

By: /S/ JAMES BITETTO

By: /s/ CHARLES FARQUHARSON

James Bitetto Corporate Secretary Date: October 7, 2009

_____ Charles Farguharson 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

Compitance office

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

Director

Date: June 16, 2013

CUTWATER ASSET MANAGEMENT CORPORATION

By: /S/ CLIFFORD CORSO

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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 NEWTON MANAGEMENT LIMITED By: /S/ HELENA MORRISSEY By: /S/ ANDREW DOWNS ______ _____ Helena Morrissey Andrew Downs Director Director Date: October 15, 2009 Date: November 6, 2009 MELLON OVERSEAS INVESTMENT INSIGHT INVESTMENT MANAGEMENT CORPORATION TITMITED By: /S/ JON LITTLE By: /S/ CHARLES FARQUHARSON _____ _____ Jon Little Charles Farquharson Chairman, President And Chief Risk Officer Chief Executive Officer Date: December 04, 2009 Date: December 04, 2009 BNY INTERNATIONAL FINANCING THE BANK OF NEW YORK MELLON SA/NV CORPORATION By: /S/ FRED RICCIARDI By: /S/ JEAN-CHRISTOPHEMATHONET ______ _____ Fred Ricciardi Jean-ChristopheMathonet President Managing Director Date: August 30, 2010 Date: October 4, 2010 BNY MELLON INVESTMENT MANAGEMENT BNY MELLON INVESTMENT MANAGEMENT EUROPE HOLDINGS LIMITED (EUROPE) LIMITED By: /S/ GREG BRISK By: /S/ GREG BRISK _____ _____ Greg Brisk Greg Brisk Director Director Date: March 14, 2013 Date: March 14, 2013 BNY MELLON INVESTMENT MANAGEMENT BNY CAPITAL MARKETS HOLDINGS, INC. (JERSEY) LIMITED By: /S/ THOMAS P. GIBBONS By: /S/ GREG BRISK _____ ______ Greg Brisk Thomas P. Gibbons Director Vice Chairman & CFO Date: March 14, 2013 Date: January 31, 2014 BNY MELLON INTERNATIONAL ASSET BNY MELLON INTERNATIONAL ASSET MANAGEMENT (HOLDINGS) LIMITED MANAGEMENT (HOLDINGS) No. 1 LIMITED By: /S/ GREG BRISK By: /S/ GREG BRISK

Greg Brisk

Date: April 5, 2013

Director

Greg Brisk

Date: April 5, 2013

Director

MELLON CANADA HOLDING COMPANY

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 |

THE BANK OF NEW YORK MELLON CORPORATION

BNY MELLON, NATIONAL ASSOCIATION

By: /S/ RONALD P. O'HANLEY

Gerald L. Hassell

By: /S/ GERALD L. HASSELL

Ronald P. O'Hanley

Vice Chairman President Date: October 09, 2009 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 THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION 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/ MARCELO PERIERA DA SILVA By: /S/ JOSE CARLOS LOPES XAVIER DE OLIVEIRA Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silve Chief Financial Officer _____ Marcelo Periera da Silva Chief Executive 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

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

MOBILIARIOS S.A

MOBILIARIOS S.A

LTDA

DE OLIVEIRA

Date: January 4, 2010

Jose Carlos Lopes Xavier De Oliveira Marcelo Periera da Silva Chief Executive Officer Chief Financial Officer Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS

BNY MELLON ARX ATIVOS FINANCEIROS

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 Jose Carros Lopes Man-Chief Executive Officer

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

DE OLIVEIRA

BNY MELLON GESTAO DE PATRIMONIO LTDA

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

Date: January 4, 2010

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

Date: January 4, 2010

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT

By: /S/ DAVE CAMERON

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

BNY MELLON ASSET MANAGEMENT JAPAN

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

THE BOSTON COMPANY ASSET MANAGEMENT T.T.C.

Bv: /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

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

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: May 16, 2013 Date: December 5, 2012

BNY MELLON INVESTMENT MANAGEMENT

CAYMAN LTD.

CUTWATER ASSET MANAGEMENT

CORPORATION

By: /S/ BRENDON J. DONNELLAN

Brendon J.Donnellan

Director

Date: June 16, 2013

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

Date: October 9, 2009

NEWTON MANAGEMENT LIMITED NEWTON MANAGEMENT LIMITED By: /S/ HELENA MORRISSEY By: /S/ ANDREW DOWNS _____ _____ Helena Morrissey Andrew Downs Director Director Date: October 15, 2009 Date: November 6, 2009 MELLON OVERSEAS INVESTMENT INSIGHT INVESTMENT MANAGEMENT CORPORATION LIMITED By: /S/ JON LITTLE By: /S/ CHARLES FARQUHARSON _____ _____ Jon Little Charles Farquharson Chairman, President And Chief Risk Officer Chief Executive Officer Date: December 04, 2009 Date: December 04, 2009 BNY INTERNATIONAL FINANCING THE BANK OF NEW YORK MELLON SA/NV CORPORATION By: /S/ FRED RICCIARDI By: /S/ JEAN-CHRISTOPHEMATHONET _____ ______ Fred Ricciardi Jean-ChristopheMathonet President Managing Director Date: August 30, 2010 Date: October 4, 2010 BNY MELLON INVESTMENT MANAGEMENT BNY MELLON INVESTMENT MANAGEMENT EUROPE HOLDINGS LIMITED (EUROPE) LIMITED By: /S/ GREG BRISK By: /S/ GREG BRISK _____ _____ Greg Brisk Greg Brisk Director Director Date: March 14, 2013 Date: March 14, 2013 BNY MELLON INVESTMENT MANAGEMENT BNY CAPITAL MARKETS HOLDINGS, INC. (JERSEY) LIMITED By: /S/ THOMAS P. GIBBONS By: /S/ GREG BRISK ______ _____ Greg Brisk Thomas P. Gibbons Vice Chairman & CFO Director Date: March 14, 2013 Date: January 31, 2014

BNY MELLON INTERNATIONAL ASSET

By: /S/ GREG BRISK

Greg Brisk

Date: April 5, 2013

Director

MANAGEMENT (HOLDINGS) No. 1 LIMITED

BNY MELLON INTERNATIONAL ASSET

MANAGEMENT (HOLDINGS) LIMITED

By: /S/ GREG BRISK

Greg Brisk

Date: April 5, 2013

Director

MELLON CANADA HOLDING COMPANY	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							
F	and Administrators						
BNY MELLON SERVICE KAPITALANLAG GESELLSCHAFT mbH	:-						
By: /S/ CAROLINE SPECHT							
Caroline Specht Managing Director, Head of Business Strategy and Legal Date: August 24, 2010							