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: Mack-Cali Realty Corporation	
TITLE OF CLASS OF SECURITIES: Real Estate Investment Trust	
CUSIP NUMBER: 554489104	
DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: January 31, 2018	
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 person's initial filing on this form with respect to the of securities, and for any subsequent amendment containing which would alter the disclosures provided in a prior cover.	subject class g information
The information required in the remainder of this cover post be deemed to be 'filed' for the purpose of Section 18 of Exchange Act of 1934 ('Act') or otherwise subject to the that section of the Act but shall be subject to all other the Act (however, see the Notes).	the Securities liabilities of
CUSIP NUMBER: 554489104	
(1) Names of Reporting Persons The Bank of New York Mello IRS Identification Nos. of Above Persons IRS No.13-261	=
(2) Check the Appropriate Box if a Member of a Group (See (a) ( ) (b) ( )	Instructions)
(3) SEC use only	
(4) Citizenship or Place of Organization	New York
Number of Shares (5) Sole Voting Power 2,180	, 347
Beneficially Owned by Each (6) Shared Voting Power Reporting Person With (7) Sole Dispositive Power 1,869,784	0
(8) Shared Dispositive Power 413,614	
(9) Aggregate Amount Beneficially Owned by Each Reporting Person	2,293,615
(10) Check if the Aggregated Amount in Row (9) Excludes Constructions)	ertain ( )
(11) Percent of Class Represented by Amount in Row (9)	2.55%
(12) Type of Reporting Person (See Instructions) HC	
CUSIP NUMBER: 554489104	
(1) Names of Reporting Persons CenterSquare Investment Man Holdings, Inc. IRS Identification Nos. of Above Persons IRS No.59-283	-
(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	Pennsylvania
Number of Shares (5) Sole Voting Power	0
Beneficially Owned by Each (6) Shared Voting Power	0
Reporting Person With (7) Sole Dispositive Power 0	

(8) Shared Dispositive Power 0	
(9) Aggregate Amount Beneficially Owned by Each Reporting Person 0	
(10) Check if the Aggregated Amount in Row (9) Excludes Certain Shares (see Instructions) ( )	
(11) Percent of Class Represented by Amount in Row (9) 0.00%	
(12) Type of Reporting Person (See Instructions) IA	
CUSIP NUMBER: 554489104	
(1) Names of Reporting Persons CenterSquare Investment Management, Inc IRS Identification Nos. of Above Persons IRS No.	
<pre>(2) Check the Appropriate Box if a Member of a Group (See Instructions) (a) ( ) (b) ( )</pre>	
(3) SEC use only	
(4) Citizenship or Place of Organization	
Number of Shares (5) Sole Voting Power 0	
Beneficially Owned by Each (6) Shared Voting Power 0	
Reporting Person With (7) Sole Dispositive Power 0	
(8) Shared Dispositive Power 0	
(9) Aggregate Amount Beneficially Owned by Each Reporting Person 0	
(10) Check if the Aggregated Amount in Row (9) Excludes Certain Shares (see Instructions) ( )	
(11) Percent of Class Represented by Amount in Row (9) 0.00%	
(12) Type of Reporting Person (See Instructions)	
SCHEDULE 13G	
Item 1(a) Name of Issuer: Mack-Cali Realty Corporation	
Item 1(b) Address of Issuer's Principal Executive Office:	
Harborside 3, 210 Hudson St., Ste. 400 Jersey City, New Jersey 07311 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: Real Estate Investment Trust	
CUSIP Number 554489104	
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	
<pre>IV = Investment Company registered under Section 8 of the Investment Company Act of 1940</pre>	

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

The amount beneficially owned includes, where appropriate, securities not outstanding which are subject to options, warrants, rights or conversion privileges that are exercisable within 60 days. The securities reported herein as beneficially owned may exclude securities of the issuer with respect to which voting and/or dispositive power is exercised by subsidiaries of The Bank of New York Mellon Corporation, or departments or units thereof, independently from the exercise of those powers over the securities reported herein. See SEC Release No. 34-39538 (January 12, 1998). The filling 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:

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 12, 2018

THE BANK OF NEW YORK MELLON CORPORATION

By: /s/ IVAN R. ARIAS

### 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 (parent holding company of Mellon Overseas Investment Corporation; BNY International Financing Corporation; The Bank of New York Mellon SA/NV; Cutwater Holdings, LLC)
  - The Bank of New York Mellon Trust Company, National Association
  - (X) BNY Mellon, National Association
  - (X) BNY Mellon Trust of Delaware
  - (X) The Bank of New York Mellon SA/NV (parent holding company of BNY Mellon Service Kapitalanlage-Gesellschaft mbH)
- 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)"
  - ( ) ARX Investimentos Ltda (parent holding company of BNY Mellon Alocacao de Patrimonia Ltda.)
  - ( ) BNY Mellon Alocacao de Patrimonia Ltda
  - ( ) BNY Mellon Servicos Financeiros Distribuidora de Titulos e Valores Mobiliarios S.A. (parent holding company of BNY Mellon Administracao de Ativos Ltda.)
  - ( ) BNY Mellon Administracao de Ativos Ltda.

  - ( ) 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 Investment Management (North America) Limited
  - ( ) Newton Investment Management Limited
  - ( ) Standish Mellon Asset Management Company LLC
  - ( ) 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
  - Pareto Investment Management Limited ( )
  - ( ) BNY Mellon Asset Management Japan Limited
- (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
- 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)"
  - The Bank of New York Mellon Corporation
  - B.N.Y. Holdings (Delaware) Corporation (parent holding company of (X) BNY Mellon Trust of Delaware)
  - BNY Mellon IHC, LLC (parent holding company of MBC Investments (X) Corporation)
    - (X) MBC Investments Corporation (parent holding company of Mellon Capital Management Corporation; BNY Mellon Investment Management (Jersey) Ltd.; BNY Mellon Investment Management APAC LP; Standish Mellon Asset Management Company LLC; The Boston Company Asset Management LLC; The Dreyfus Corporation; ARX Investimentos Ltda. - Brazil
    - 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 Ltd.)
    - ( ) 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)
- ( ) Newton Management Limited (parent holding company of Newton Investment Management (North America) Limited; Newton Investment Management Limited)
- ( ) 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)
- ( ) Insight Investment Management Limited (parent holding company of Insight Investment Management (Global) Limited; Pareto Investment Management Limited)
- ( ) BNY Mellon Investment Management APAC LP (Parent holding company of BNY Mellon Investment Management (APAC) Holdings Limited
- () BNY Mellon Investment Management (APAC) Holdings Limited (parent holding company of BNY Mellon Asset Management Japan Limited)
- (X) Pershing Group LLC (parent holding company of Lockwood Advisors, Inc; Pershing LLC)
- ( ) Mellon Overseas Investment Corporation (parent holding company of Mellon Canada Holding Company; BNY Mellon Participacoes Ltda.)
- ( ) Mellon Canada Holding Company (parent holding company of BNY Mellon Wealth Management, Advisory Services, Inc)
- () BNY Mellon Participacoes Ltda.(parent holding company of BNY Mellon Servicos Financeiros Distribuidora de Titulos e Valores Mobiliarios S.A.)
- ( ) BNY International Financing Corporation (parent holding company of BNY Mellon Trust Company (Cayman) Limited)
- ( ) Cutwater Holdings LLC (parent holding company of Cutwater Asset Management Corporation; Cutwater Investor Services Corporation)
- ( ) BNY Capital Markets Holdings, Inc. (parent holding company of BNY Mellon Capital Markets, LLC)

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 Nicholas R. Darrow, Ivan Arias and Andrew Weiser (and any other employee of The Bank of New York Mellon Corporation, or one of its affiliates, associated with the Global Holdings Reporting Group and 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, Schedule 13D and Forms 3, 4 and 5, 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

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 to whom power of attorney has been hereby granted cease(s) to be an persons employee of The Bank of New York Mellon Corporation or one of its affiliates.

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

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

Banks/Bank Holding Companies \_\_\_\_\_\_

THE BANK OF NEW YORK MELLON CORPORATION

By: /S/ DONALD HEBERLE By: /S/ MITCHELL E.HARRIS Mitchell E. Harris

Chief Executive Officer, Investment Management Date: March 17, 2017

BNY MELLON, NATIONAL ASSOCIATION

By: /S/ THOMAS J. DICKER -----Thomas J. Dicker Chief Operating Officer Date: October 9, 2015

THE BANK OF NEW YORK MELLON

By: /S/ MITCHELL E. HARRIS -----Mitchell E. Harris Senior Executive Vice President Date: September 18, 2015

THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION

Bv: /S/ ANTONIO PORTUONDO Antonio Portuondo President Date: October 20, 2015

BNY MELLON TRUST OF DELAWARE

By: /S/ JAMES P. AMBAGIS -----James P. Ambagis President

Date: October 21, 2015

BNY MELLON, NATIONAL ASSOCIATION

Donald Heberle Chief Executive Officer

Date: September 16, 2015

THE BANK OF NEW YORK MELLON SA/NV

By: /S/ LAURA AHTO Laura Ahto Chief Executive Officer Date: May 17, 2016

THE BANK OF NEW YORK MELLON

By: /S/ CURTIS ARLEDGE -----Curtis Arledge Vice Chairman Date: August 26, 2015

THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION

By: /S/ KURTIS R. KURIMSKY Kurtis R. Kurimsky Executive Vice President Date: March 8, 2016

BNY MELLON TRUST OF DELAWARE

By: /S/ LEE JAMES WOOLLEY -----Lee James Woolley Chairman and Chief Executive Officer Date: October 19, 2015

BNY MELLON CAPITAL MARKETS, LLC

Chief Operating Officer

Investment Advisers and/or Broker-Dealers

PERSHING LLC

By: /S/ CLAIRE SANTANIELLO Claire Santaniello Chief Administrative Officer and Chief Risk Officer Date: May 24, 2016

ARX INVESTIMENTOS LTDA

By: /S/ CAMILA SOUZA Camila Souza Director

Date: January 4, 2016

ARX INVESTIMENTOS LTDA

Date: October 19, 2016

By: /S/ JEFF GEARHART Jeff Gearhart

By: /S/ GUILHERME ABRY Guilherme Abry Director Date: January 4, 2016

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

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

By: /S/ CARLOS ALBERTO SARAIVA

Carlos Alberto Saraiva

Director

Date: May 5, 2016

BNY MELLON ADMINISTRACAO DE ATIVOS

By: /S/ CARLOS ALBERTO SARAIVA
----Carlos Alberto Saraiva
Director
Date: May 5, 2016

LTDA

BNY MELLON ALOCACAO DE PATRIMONIO LTDA

By: /S/ GUSTAVO CASTELLO BRANCO

Gustavo Castello Branco

Director

Date: January 4, 2016

THE BOSTON COMPANY ASSET MANAGEMENT

By: /S/ BART GRENIER

Bart Grenier
Chairman and
Chief Executive Officer
Date: July 16, 2015

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO

James Bitetto
Secretary
Date: July 30, 2015

LOCKWOOD ADVISORS, INC.

By: /S/ JOHN J. BRETT

John J. Brett
Chairman

Date: July 30, 2015

MELLON CAPITAL MANAGEMENT CORPORATION

By: /S/ W. CHRISTOPHER APPLER

W. Christopher Appler

Managing Director and

Chief Compliance Officer

Date: August 4, 2015

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ JAMES HELBY

James Helby
Director
Date: July 17, 2015

WALTER SCOTT & PARTNERS LIMITED

By: /S/ RODGER NISBET

Rodger Nisbet

By: /S/ MARCUS VINICIUS MATHIAS PEREIRA

Marcus Vinicius Mathias Pereira
Director
Date: May 5, 2016

BNY MELLON ADMINISTRACAO DE ATIVOS LTDA

By: /S/ MARCUS VINICIUS MATHIAS PEREIRA

Marcus Vinicius Mathias Pereira

Director

Date: May 5, 2016

BNY MELLON ALOCACAO DE PATRIMONIO LTDA

By: /S/ CAMILA SOUZA

Camila Souza

Director

Date: January 4, 2016

BNY MELLON ASSET MANAGEMENT JAPAN LIMITED

By: /S/ SHIZU KISHIMOTO

Shizu Kishimoto
Representative Director
and President
Date: August 5, 2015

INSIGHT INVESTMENT MANAGEMENT (GLOBAL) LIMITED

By: /s/ CHARLES FARQUHARSON

Charles Farquharson
Chief Risk Officer
Date: February 16, 2016

STANDISH MELLON ASSET MANAGEMENT
COMPANY LLC
By: /S/ DAVID LEDUC
David Leduc
Chief Executive Officer
and Chief Investment Officer
Date: October 23, 2015

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

Kenneth J. Bradle

President

Date: April 29, 2016

NEWTON INVESTMENT MANAGEMENT (NORTH AMERICA) LIMITED

By: /S/ JAMES HELBY

James Helby
Chief Risk Officer
Date: June 30, 2016

PARETO INVESTMENT MANAGEMENT LIMITED

By: /S/ CHARLES FARQUHARSON

Charles Farquharson

Executive Chairman Chief Risk Officer Date: July 15, 2015 Date: February 16, 2016

BNY MELLON WEALTH MANAGEMENT, ADVISORY SERVICES, INC.

By: /S/ MARIE-CLAUDE LEPAGE

Marie-Claude Lepage Chief Compliance Officer

Date: May 9, 2016

Date: May 17, 2016

BNY MELLON TRUST COMPANY (CAYMAN) LIMITED

By: CANELLA SECRETARIES (CAYMAN) LTD, SECRETARY By: /S/GILLIAN NELSON Gillian Nelson Authorized Person

CUTWATER INVESTOR SERVICES CUTWATER ASSET MANAGEMENT CORPORATION

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

BNY MELLON INVESTMENT MANAGEMENT CAYMAN LTD

By: /S/ BRENDON J. DONNELLAN

Brendon J.Donnellan Director Date: August 22, 2016

BNY MELLON TRUST COMPANY (CAYMAN) LIMITED

By: CANELLA SECRETARIES (CAYMAN) LTD, SECRETARY By: /S/ PATRICIA BRUZIO Patricia Bruzio Authorized Person Date: May 17, 2016

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 PERSHING GROUP LLC

By: /S/ JAMES P. AMBAGIS James P. Ambagis President

Date: October 21, 2015

BNY MELLON INVESTMENT MANAGEMENT (APAC) HOLDINGS LIMITED

By: /S/ EMILY CHAN \_\_\_\_\_ Emily Chan Director Date: April 19, 2016

BNY MELLON INTERNATIONAL ASSET MANAGEMENT GROUP LIMITED

By: /S/ GREG BRISK -----Greg Brisk Director Date: October 21, 2015

BNY MELLON IHC, LLC

By: /S/ KURTIS R. KURIMSKY -----Kurtis R. Kurimsky Vice President and Controller Date: March 29, 2017

MELLON OVERSEAS INVESTMENT CORPORATION By: /S/ KURTIS R. KURIMSKY

By: /S/ CLAIRE SANTANIELLO Claire Santaniello Chief Administrative Officer and Chief Risk Officer Date: May 11, 2016

BNY MELLON INVESTMENT MANAGEMENT (APAC) HOLDINGS LIMITED

By: /S/ DONI SHAMSUDDIN Doni Shamsuddin Director Date: April 19, 2016

NEWTON MANAGEMENT LIMITED

By: /S/ HELENA MORRISSEY \_\_\_\_\_ Helena Morrissey Director Date: July 17, 2015

MBC INVESTMENTS CORPORATION

By: /S/ PAUL A. GRIFFITHS Paul A. Griffiths Chairman, President and Chief Executive Officer Date: April 29, 2016

INSIGHT INVESTMENT MANAGEMENT LIMITED

By: /S/ CHARLES FARQUHARSON

Kurtis R. Kurimsky Charles Farquharson
Vice President and Controller Chief Risk Officer
Date: February 16, 2016

Date: October 7, 2015

BNY INTERNATIONAL FINANCING CORPORATION

By: /S/ KURTIS R. KURIMSKY

Kurtis R. Kurimsky President and Comptroller

Date: May 12, 2016

BNY MELLON INVESTMENT MANAGEMENT

EUROPE HOLDINGS LIMITED

By: /S/ GREG BRISK

Greg Brisk Director

Date: October 21, 2015

BNY MELLON INVESTMENT MANAGEMENT (JERSEY) LIMITED

By: /S/ GREG BRISK

-----

Greg Brisk Director

Date: October 21, 2015

BNY MELLON INTERNATIONAL ASSET MANAGEMENT (HOLDINGS) LIMITED

By: /S/ GREG BRISK

Grea Brisk Director

Date: October 21, 2015

MELLON CANADA HOLDING COMPANY

By: /S/ KELLY SCHWARTZ

-----Kelly Schwartz

President and Director

Date: May 3, 2016

BNY MELLON PARTICIPACOES LTDA

By: /S/ CARLOS ALBERTO SARAIVA

Carlos Alberto Saraiva

Director

Date: May 5, 2016

BNY MELLON INVESTMENT MANAGEMENT

APAC LP

By: BNY MELLON INVESTMENT MANAGEMENT HOLDINGS, LLC, GENERAL PARTNER

By: /S/ PAUL A. GRIFFITHS

Paul A. Griffiths

President

Date: April 29, 2016

Fund Administrators

BNY MELLON SERVICE KAPITALANLAGE-

GESELLSCHAFT mbH

By: /S/ KATARINA MELVAN \_\_\_\_\_ GESELLSCHAFT mbH

BNY MELLON SERVICE KAPITALANLAGE-

By: /S/ CAROLINE SPECHT

\_\_\_\_\_

BNY MELLON INVESTMENT MANAGEMENT

Charles Farguharson

BNY INTERNATIONAL FINANCING

CORPORATION

By: /S/ GREG BRISK

(EUROPE) LIMITED

By: /S/ JOHN M. ROY

John M. Roy Vice President

Date: August 15, 2016

Greg Brisk Director

Date: October 21, 2015

BNY CAPITAL MARKETS HOLDINGS, INC.

By: /S/ THOMAS P. GIBBONS

Thomas P. Gibbons Vice Chairman and Chief

Financial Officer Date: October 24, 2015

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

By: /S/ GREG BRISK

Grea Brisk

Director

Date: October 21, 2015

CUTWATER HOLDINGS, LLC

By: /S/ CLIFFORD CORSO

Clifford Corso

Chief Executive Officer

Date: March 16, 2015

BNY MELLON PARTICIPACOES LTDA

By: /S/ MARCUS VINICIUS MATHIAS PEREIRA

Marcus Vinicius Mathias Pereira

Director

Date: May 5, 2016

Katarina Melvan Managing Director(Chairman) Date: August 19, 2016

Caroline Specht Managing Director Date: August 19, 2016

### 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 BNY MELLON, NATIONAL ASSOCIATION CORPORATION By: /S/ MITCHELL E.HARRIS By: /S/ DONALD HEBERLE .\_\_\_\_\_ \_\_\_\_\_ Mitchell E. Harris Donald Heberle Chief Executive Officer, Chief Executive Officer Investment Management Date: September 16, 2015 Date: March 17, 2017 BNY MELLON, NATIONAL ASSOCIATION THE BANK OF NEW YORK MELLON SA/NV By: /S/ THOMAS J. DICKER By: /S/ LAURA AHTO \_\_\_\_\_\_ Thomas J. Dicker Laura Ahto Chief Operating Officer Chief Executive Officer Date: October 9, 2015 Date: May 17, 2016 THE BANK OF NEW YORK MELLON THE BANK OF NEW YORK MELLON By: /S/ MITCHELL E. HARRIS By: /S/ CURTIS ARLEDGE Mitchell E. Harris Curtis Arledge Vice Chairman Senior Executive Vice President Date: August 27, 2015 Date: August 26, 2015 THE BANK OF NEW YORK MELLON TRUST THE BANK OF NEW YORK MELLON TRUST COMPANY, NATIONAL ASSOCIATION COMPANY, NATIONAL ASSOCIATION By: /S/ ANTONIO PORTUONDO By: /S/ KURTIS R. KURIMSKY Antonio Portuondo Kurtis R. Kurimskv President Executive Vice President Date: October 20, 2015 Date: March 8, 2016 BNY MELLON TRUST OF DELAWARE BNY MELLON TRUST OF DELAWARE By: /S/ JAMES P. AMBAGIS By: /S/ LEE JAMES WOOLLEY

| Investment Advisers and/or Broker-Dealers |

PERSHING LLC BNY MELLON CAPITAL MARKETS, LLC

By: /S/ CLAIRE SANTANIELLO
----Claire Santaniello
Chief Administrative Officer

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James P. Ambagis

Date: October 21, 2015

President

By: /S/ JEFF GEARHART

Jeff Gearhart
Chief Operating Officer

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

Lee James Woollev

Chief Executive Officer

Chairman and

Date: October 19, 2015

and Chief Risk Officer Date: May 24, 2016

ARX INVESTIMENTOS LTDA

By: /S/ CAMILA SOUZA

Camila Souza Director

Date: January 4, 2016

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

By: /S/ CARLOS ALBERTO SARAIVA \_\_\_\_\_\_ Carlos Alberto Saraiva Director

Date: May 5, 2016

BNY MELLON ADMINISTRAÇÃO DE ATIVOS

By: /S/ CARLOS ALBERTO SARAIVA Carlos Alberto Saraiva Director

Date: May 5, 2016

BNY MELLON ALOCACAO DE PATRIMONIO TITDA

By: /S/ GUSTAVO CASTELLO BRANCO Gustavo Castello Branco Director

Date: January 4, 2016

THE BOSTON COMPANY ASSET MANAGEMENT T.T.C

By: /S/ BART GRENIER \_\_\_\_\_

Bart Grenier Chairman and Chief Executive Officer Date: July 16, 2015

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO James Bitetto

Secretary Date: July 30, 2015

LOCKWOOD ADVISORS, INC.

By: /S/ JOHN J. BRETT John J. Brett Chairman

Date: July 30, 2015

MELLON CAPITAL MANAGEMENT CORPORATION

-----W. Christopher Appler Managing Director and Chief Compliance Officer Date: August 4, 2015

By: /S/ W. CHRISTOPHER APPLER

Date: October 19, 2016

ARX INVESTIMENTOS LTDA

By: /S/ GUILHERME ABRY

Guilherme Abrv Director

Date: January 4, 2016

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

By: /S/ MARCUS VINICIUS MATHIAS PEREIRA \_\_\_\_\_\_ Marcus Vinicius Mathias Pereira Director

Date: May 5, 2016

BNY MELLON ADMINISTRACAO DE ATIVOS

LTDA

By: /S/ MARCUS VINICIUS MATHIAS PEREIRA Marcus Vinicius Mathias Pereira

Director Date: May 5, 2016

BNY MELLON ALOCACAO DE PATRIMONIO

T.TDA

By: /S/ CAMILA SOUZA -----

> Camila Souza Director

Date: January 4, 2016

BNY MELLON ASSET MANAGEMENT JAPAN

T.TMTTED

By: /S/ SHIZU KISHIMOTO Shizu Kishimoto Representative Director

and President Date: August 5, 2015

INSIGHT INVESTMENT MANAGEMENT

(GLOBAL) LIMITED

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

Date: February 16, 2016

STANDISH MELLON ASSET MANAGEMENT

COMPANY LLC

By: /S/ DAVID LEDUC \_\_\_\_\_\_

David Leduc

Chief Executive Officer and Chief Investment Officer

Date: October 23, 2015

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

-----

Kenneth J. Bradle President

Date: April 29, 2016

NEWTON INVESTMENT MANAGEMENT LIMITED

NEWTON INVESTMENT MANAGEMENT (NORTH AMERICA) LIMITED

By: /S/ JAMES HELBY

James Helby

Director Date: July 17, 2015

WALTER SCOTT & PARTNERS LIMITED

By: /S/ RODGER NISBET

Rodger Nisbet Executive Chairman Date: July 15, 2015

BNY MELLON WEALTH MANAGEMENT, ADVISORY SERVICES, INC.

By: /S/ MARIE-CLAUDE LEPAGE

Marie-Claude Lepage Chief Compliance Officer

Date: May 9, 2016

BNY MELLON TRUST COMPANY (CAYMAN) LIMITED

By: CANELLA SECRETARIES (CAYMAN) LTD, SECRETARY

By: /S/GILLIAN NELSON

Gillian Nelson Authorized Person Date: May 17, 2016

CUTWATER INVESTOR SERVICES CORPORATION

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

James Helby Chief Risk Officer Date: June 30, 2016

By: /S/ JAMES HELBY

PARETO INVESTMENT MANAGEMENT LIMITED

By: /S/ CHARLES FARQUHARSON Charles Farguharson Chief Risk Officer Date: February 16, 2016

BNY MELLON INVESTMENT MANAGEMENT

CAYMAN LTD

By: /S/ BRENDON J. DONNELLAN

Brendon J.Donnellan Director Date: August 22, 2016

BNY MELLON TRUST COMPANY (CAYMAN) LIMITED

By: CANELLA SECRETARIES (CAYMAN) LTD, SECRETARY By: /S/ PATRICIA BRUZIO Patricia Bruzio

Authorized Person Date: May 17, 2016

CUTWATER ASSET MANAGEMENT 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 PERSHING GROUP LLC

By: /S/ JAMES P. AMBAGIS James P. Ambagis President

Date: October 21, 2015

BNY MELLON INVESTMENT MANAGEMENT (APAC) HOLDINGS LIMITED

By: /S/ EMILY CHAN Emily Chan Director Date: April 19, 2016

BNY MELLON INTERNATIONAL ASSET MANAGEMENT GROUP LIMITED

By: /S/ GREG BRISK Grea Brisk Director Date: October 21, 2015 By: /S/ CLAIRE SANTANIELLO Claire Santaniello

Chief Administrative Officer and Chief Risk Officer

Date: May 11, 2016

BNY MELLON INVESTMENT MANAGEMENT (APAC) HOLDINGS LIMITED

By: /S/ DONI SHAMSUDDIN Doni Shamsuddin Director Date: April 19, 2016

NEWTON MANAGEMENT LIMITED

By: /S/ HELENA MORRISSEY Helena Morrissev Director Date: July 17, 2015

BNY MELLON IHC, LLC

By: /S/ KURTIS R. KURIMSKY

Kurtis R. Kurimsky Vice President and Controller

Date: March 29, 2017

MELLON OVERSEAS INVESTMENT

By: /S/ KURTIS R. KURIMSKY
----Kurtis R. Kurimsky

Vice President and Controller
Date: October 7, 2015

BNY INTERNATIONAL FINANCING

CORPORATION

By: /S/ KURTIS R. KURIMSKY
----Kurtis R. Kurimsky

President and Comptroller Date: May 12, 2016

BNY MELLON INVESTMENT MANAGEMENT EUROPE HOLDINGS LIMITED

By: /S/ GREG BRISK

Greg Brisk Director

Date: October 21, 2015

BNY MELLON INVESTMENT MANAGEMENT
(JERSEY)LIMITED

By: /S/ GREG BRISK

Greg Brisk Director

Date: October 21, 2015

BNY MELLON INTERNATIONAL ASSET MANAGEMENT (HOLDINGS) LIMITED

By: /S/ GREG BRISK

-----

Greg Brisk Director

Date: October 21, 2015

MELLON CANADA HOLDING COMPANY

By: /S/ KELLY SCHWARTZ

Kelly Schwartz
President and Director
Date: May 3, 2016

BNY MELLON PARTICIPACOES LTDA

By: /S/ CARLOS ALBERTO SARAIVA
----Carlos Alberto Saraiva

Director
Date: May 5, 2016

BNY MELLON INVESTMENT MANAGEMENT APAC LP By: BNY MELLON INVESTMENT MANAGEMENT

HOLDINGS, LLC, GENERAL PARTNER

MBC INVESTMENTS CORPORATION

By: /S/ PAUL A. GRIFFITHS

Paul A. Griffiths Chairman, President and Chief Executive Officer

Date: April 29, 2016

INSIGHT INVESTMENT MANAGEMENT

By: /S/ CHARLES FARQUHARSON

Charles Farquharson
Chief Risk Officer
Date: February 16, 2016

BNY INTERNATIONAL FINANCING CORPORATION

By: /S/ JOHN M. ROY

John M. Roy

Vice President Date: August 15, 2016

BNY MELLON INVESTMENT MANAGEMENT (EUROPE)LIMITED

By: /S/ GREG BRISK

0 0 0

Greg Brisk Director

Date: October 21, 2015

BNY CAPITAL MARKETS HOLDINGS, INC.

By: /S/ THOMAS P. GIBBONS

Thomas P. Gibbons
Vice Chairman and Chief
Financial Officer
Date: October 24, 2015

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

By: /S/ GREG BRISK

-----

Greg Brisk Director

Date: October 21, 2015

CUTWATER HOLDINGS, LLC

By: /S/ CLIFFORD CORSO

Date: March 16, 2015

Clifford Corso Chief Executive Officer

BNY MELLON PARTICIPACOES LTDA

By: /S/ CARLOS ALBERTO SARAIVA By: /S/ MARCUS VINICIUS MATHIAS PEREIRA

Marcus Vinicius Mathias Pereira

Director

Date: May 5, 2016

By: /S/ PAUL A. GRIFFITHS \_\_\_\_\_ Paul A. Griffiths President

Date: April 29, 2016

\_\_\_\_\_\_ Fund Administrators

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

BNY MELLON SERVICE KAPITALANLAGE-GESELLSCHAFT mbH

By: /S/ KATARINA MELVAN

Date: August 19, 2016

BNY MELLON SERVICE KAPITALANLAGE-GESELLSCHAFT mbH

By: /S/ CAROLINE SPECHT Katarina Melvan Caroline Specht
Managing Director(Chairman) Managing Director
Le: August 19, 2016 Date: August 19, 2016