SPDR GOLD TRUST Form SC 13G February 04, 2019

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

SCHEDULE 13G

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

NAME OF ISSUER: SPDR Gold MiniShares Trust

TITLE OF CLASS OF SECURITIES: Exchange Traded Product

CUSIP NUMBER: 98149E204

DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: December 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 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: 98149E204

- (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 1,933,488
Beneficially
Owned by Each (6) Shared Voting Power 0
Reporting Person
With (7) Sole Dispositive Power 2,324,485

(8) Shared Dispositive Power 0

(9) Aggregate Amount Beneficially Owned
 by Each Reporting Person 2,324,485

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

	-		
Shares (see Instruction	s)		( )
(11) Percent of Class Repres	ented by	7 Amount in Row (9)	7.99%
(12) Type of Reporting Perso	n (See 1	Instructions)	НС
CUSIP NUMBER: 98149E204			
(1) Names of Reporting P IRS Identification N			shing Group LLC RS No.00-0000000
(2) Check the Appropriat (a) ( ) (b) ( )	e Box if	f a Member of a Group (Se	ee Instructions)
(3) SEC use only			
(4) Citizenship or Place	of Orga	anization	New York
Number of Shares	(5)	Sole Voting Power	1,933,488
Beneficially Owned by Each	(6)	Shared Voting Power	0
Reporting Person With	(7)	Sole Dispositive Power	2,324,485
	(8)	Shared Dispositive Powe	er 0
(9) Aggregate Amount Benefi by Each Reporting Perso	_	Dwned	2,324,485
(10) Check if the Aggregated Shares (see Instruction		in Row (9) Excludes Cert	ain ( )
(11) Percent of Class Repres	ented by	Amount in Row (9)	7.99%
(12) Type of Reporting Perso	n (See 1	Instructions)	НС
CUSIP NUMBER: 98149E204			
(1) Names of Reporting P IRS Identification N			ockwood Advisors RS No.23-2842975
(2) Check the Appropriat (a) ( ) (b) ( )	e Box if	f a Member of a Group (Se	ee Instructions)
(3) SEC use only			
(4) Citizenship or Place	of Orga	anization	Delaware
Number of Shares	(5)	Sole Voting Power	1,933,488
Beneficially Owned by Each	(6)	Shared Voting Power	0
Reporting Person With	(7)	Sole Dispositive Power	2,324,485
	(8)	Shared Dispositive Powe	er 0
(9) Aggregate Amount Benefi by Each Reporting Perso		Dwned	2,324,485
(10) Check if the Aggregated	l Amount	in Row (9) Excludes Cert	ain

	t	agar Filing: SPL	OR GOLD TRUST - Form SC 130	J
Share	es (see Ins	structions)		( )
(11) Perce	ent of Clas	ss Represented k	by Amount in Row (9)	7.99%
(12) Type	of Reporti	ng Person (See	Instructions)	IA
		SCF	HEDULE 13G	
Item 1(a)	Name of	Issuer: SPI	DR Gold MiniShares Trust	
Item 1(b)	Address	s of Issuer's Pi	rincipal Executive Office:	
		1	685 Third Avenue, 27th Floor New York, New York 10017 Jnited States	
Item 2(a)	Name of	F 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)	Addres	ss of Principal	Business Office, or if None, C/O The Bank of New York Mel- 240 Greenwich Street New York, New York 10286 (for all reporting person	lon Corporation
Item 2(c)	Citize	enship:	See cover page and Exhibit	I
Item 2(d)	Title	of Class of Sec	curities: Exchange Traded	Product
CUSIP Numb	per 9814	19E204		
Item 3		12 of cover pag for each repor	ge(s) ("Type of Reporting rting person.	
	Symbol Ca	ategory		
	BD =		ler registered under Section I change Act of 1934	15 of the
	BK =	Bank as define Exchange Act o	ed in Section 3(a)(6) of the 3 of 1934	Securities
	IV =		mpany registered under Section mpany Act of 1940	n 8 of the
	IA =		visor registered under Section visors Act of 1940	n 203 of the
	EP =	to the provisi	fit Plan, Pension Fund which sions of the Employee Retirement of 1974 or Endowment Fund; see 3 - d(1)(b)(1)(ii)(F)	nt Income
	HC =	Parent Holding 240.13-d(1)(b)	g Company, in accordance with (1)(ii)(G)	Section
Item 4 Ov	wnership:	See Item 5 throas to each repo	ough 9 and 11 of cover page(s)	

as to each reporting person.

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

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

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

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

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

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

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

### Item 10 Certification:

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

### SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct. This filing is signed by The Bank of New York

Mellon Corporation on behalf of all reporting entities pursuant to Rule 13d-1(k) (1) promulgated under the Securities and Exchange Act of 1934, as amended.

Date: Feb 4, 2019

THE BANK OF NEW YORK MELLON CORPORATION

By: /s/ IVAN R. ARIAS

Ivan R. Arias
Attorney-In-Fact

#### 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)"
  - ( ) 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)
  - ( ) The Bank of New York Mellon Trust Company, National Association
  - ( ) BNY Mellon, National Association
  - ( ) BNY Mellon Trust of Delaware
  - ( ) The Bank of New York Mellon SA/NV (parent holding company of BNY Mellon Service Kapitalanlage-Gesellschaft mbH)
- (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)"
  - ( ) 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 Dreyfus Corporation (parent holding company of MBSC Securities Corporation)
  - ( ) Insight Investment Management (Global) Limited
  - ( ) Insight North America LLC.
  - (X) Lockwood Advisors, Inc.
  - ( ) BNY Mellon Asset Management North America Corporation
  - ( ) Newton Investment Management (North America) Limited
  - ( ) Newton Investment Management Limited
  - ( ) Walter Scott & Partners Limited
  - ( ) BNY Mellon Wealth Management, Advisory Services, Inc.
  - ( ) BNY Mellon Trust Company (Cayman) Limited
  - ( ) BNY Mellon Investment Management Cayman Limited
  - ( ) Insight Investment International 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
- ( ) 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)
  - ( ) BNY Mellon IHC, LLC (as parent holding company of MBC Investments Corporation)
  - ( ) MBC Investments Corporation (parent holding company of BNY Mellon Asset Management North America Corporation; BNY Mellon Investment; Management(Jersey) Ltd.; BNY Mellon Investment Management APAC LP; The Dreyfus Corporation; ARX Investimentos Ltda.; Mellon Global Investing Corporation)
  - ( ) 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; Insight Investment International 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
  - () 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)
  - ( ) Mellon Global Investing Corporation (parent holding company of

Insight North America 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.

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THE DANK OF NEW YORK MELLON	
THE BANK OF NEW YORK MELLON CORPORATION	N BNY MELLON, NATIONAL ASSOCIATION
By: /S/ MITCHELL E.HARRIS	By: /S/ DONALD HEBERLE
Mitchell E. Harris Chief Executive Officer Investment Management	Donald Heberle  Chief Executive Officer
Date: March 17, 2017	Date: September 16, 2015
BNY MELLON, NATIONAL ASSOCI	IATION THE BANK OF NEW YORK MELLON SA/NV
By: /S/ THOMAS J. DICKER	By: /S/ LAURA AHTO
Thomas J. Dicker Chief Operating Officer Date: October 9, 2015	Laura Ahto
THE BANK OF NEW YORK MELLON	N THE BANK OF NEW YORK MELLON
By: /S/ MITCHELL E. HARRIS	By: /S/ CURTIS ARLEDGE
Mitchell E. Harris Senior Executive Vice F	Curtis Arledge
THE BANK OF NEW YORK MELLON	
COMPANY, NATIONAL ASSOCIATI  By: /S/ ANTONIO PORTUONDO	ION COMPANY, NATIONAL ASSOCIATION  By: /S/ KURTIS R. KURIMSKY
	Kurtis R. Kurimsky
Antonio Portuondo	
Antonio Portuondo President	Executive Vice President
	<del>_</del>
President	Executive Vice President Date: March 8, 2016
President Date: October 20, 2015	Executive Vice President Date: March 8, 2016
President Date: October 20, 2015 BNY MELLON TRUST OF DELAWAR	Executive Vice President Date: March 8, 2016  RE BNY MELLON TRUST OF DELAWARE
President Date: October 20, 2015  BNY MELLON TRUST OF DELAWAR By: /S/ JAMES P. AMBAGIS	Executive Vice President Date: March 8, 2016  RE BNY MELLON TRUST OF DELAWARE  By: /S/ LEE JAMES WOOLLEY  Lee James Woolley Chairman and
President Date: October 20, 2015  BNY MELLON TRUST OF DELAWAF By: /S/ JAMES P. AMBAGIS James P. Ambagis	Executive Vice President Date: March 8, 2016  RE BNY MELLON TRUST OF DELAWARE  By: /S/ LEE JAMES WOOLLEY  Lee James Woolley
President Date: October 20, 2015  BNY MELLON TRUST OF DELAWAF By: /S/ JAMES P. AMBAGIS James P. Ambagis President	Executive Vice President Date: March 8, 2016  RE BNY MELLON TRUST OF DELAWARE  By: /S/ LEE JAMES WOOLLEY  Lee James Woolley Chairman and Chief Executive Officer
President Date: October 20, 2015  BNY MELLON TRUST OF DELAWAR By: /S/ JAMES P. AMBAGIS  James P. Ambagis President  Date: October 21, 2015	Executive Vice President Date: March 8, 2016  RE BNY MELLON TRUST OF DELAWARE  By: /S/ LEE JAMES WOOLLEY  Lee James Woolley Chairman and Chief Executive Officer
President Date: October 20, 2015  BNY MELLON TRUST OF DELAWAR By: /S/ JAMES P. AMBAGIS  James P. Ambagis President  Date: October 21, 2015	Executive Vice President Date: March 8, 2016  RE BNY MELLON TRUST OF DELAWARE  By: /S/ LEE JAMES WOOLLEY  Lee James Woolley Chairman and Chief Executive Officer Date: October 19, 2015
President Date: October 20, 2015  BNY MELLON TRUST OF DELAWAR By: /S/ JAMES P. AMBAGIS  James P. Ambagis President  Date: October 21, 2015	Executive Vice President Date: March 8, 2016  RE BNY MELLON TRUST OF DELAWARE  By: /S/ LEE JAMES WOOLLEY  Lee James Woolley Chairman and Chief Executive Officer Date: October 19, 2015  ment Advisers and/or Broker-Dealers  BNY MELLON CAPITAL MARKETS, LLC

and Chief Risk Officer

Date: May 24, 2016

Date: October 19, 2016

ARX INVESTIMENTOS LTDA

By: /S/ CAMILA SOUZA

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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 ADMINISTRACAO DE ATIVOS

LTDA

By: /S/ CARLOS ALBERTO SARAIVA

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Carlos Alberto Saraiva

Director

Date: May 5, 2016

BNY MELLON ALOCACAO DE PATRIMONIO

LTDA

By: /S/ GUSTAVO CASTELLO BRANCO

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Gustavo Castello Branco

Director

Date: January 4, 2016

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO

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James Bitetto Secretary

Date: July 30, 2015

LOCKWOOD ADVISORS, INC.

By: /S/ JOHN J. BRETT

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John J. Brett

Chairman

Date: July 30, 2015

ARX INVESTIMENTOS LTDA

By: /S/ GUILHERME ABRY

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Guilherme Abry

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

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Marcus Vinicius Mathias Pereira

Director

Date: May 5, 2016

BNY MELLON ALOCACAO DE PATRIMONIO

LTDA

By: /S/ CAMILA SOUZA

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Camila Souza

Director

Date: January 4, 2016

INSIGHT INVESTMENT MANAGEMENT

(GLOBAL) LIMITED

By: /s/ CHARLES FARQUHARSON

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Charles Farquharson

Chief Risk Officer

Date: February 16, 2016

BNY MELLON ASSET MANAGEMENT JAPAN

LIMITED

By: /S/ SHIZU KISHIMOTO

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Shizu Kishimoto

Representative Director

and President

Date: August 5, 2015

BNY MELLON ASSET MANAGEMENT
NORTH AMERICA CORPORATION

By: /S/ JENNIFER CASSEDY

Jennifer Cassedy Chief Compliance Officer Date: February 14, 2018

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 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

INSIGHT NORTH AMERICA LLC

By: /S/ JOHN ARIOLA

John Ariola

Head of Financial Analysis

Date: December 7, 2016

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

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Kenneth J. Bradle

President

Date: April 29, 2016

NEWTON INVESTMENT MANAGEMENT (NORTH AMERICA) LIMITED

By: /S/ JAMES HELBY

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James Helby Chief Risk Officer Date: June 30, 2016

INSIGHT INVESTMENT INTERNATIONAL

LIMITED

By: /S/ LEE PALMER

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Lee Palmer

Chief Compliance Officer Date: February 14, 2018

BNY MELLON INVESTMENT MANAGEMENT CAYMAN LTD

By: /S/ BRENDON J. DONNELLAN

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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

Parent Holding Companies/Control Persons B.N.Y. HOLDINGS (DELAWARE) CORPORATION PERSHING GROUP LLC By: /S/ CLAIRE SANTANIELLO By: /S/ JAMES P. AMBAGIS \_\_\_\_\_ \_\_\_\_\_\_ James P. Ambagis Claire Santaniello Chief Administrative Officer President and Chief Risk Officer Date: October 21, 2015 Date: May 11, 2016 BNY MELLON INVESTMENT MANAGEMENT BNY MELLON INVESTMENT MANAGEMENT (APAC) HOLDINGS LIMITED (APAC) HOLDINGS LIMITED By: /S/ EMILY CHAN By: /S/ DONI SHAMSUDDIN \_\_\_\_\_ -----Emily Chan Doni Shamsuddin Director Director Date: April 19, 2016 Date: April 19, 2016 BNY MELLON INTERNATIONAL ASSET NEWTON MANAGEMENT LIMITED MANAGEMENT GROUP LIMITED By: /S/ GREG BRISK By: /S/ HELENA MORRISSEY \_\_\_\_\_\_ \_\_\_\_\_ Greg Brisk Helena Morrissey Director Director Date: October 21, 2015 Date: July 17, 2015 BNY MELLON IHC, LLC MBC INVESTMENTS CORPORATION By: /S/ KURTIS R. KURIMSKY By: /S/ PAUL A. GRIFFITHS \_\_\_\_\_ \_\_\_\_\_ Kurtis R. Kurimsky Paul A. Griffiths Vice President and Chairman, President and Controller Chief Executive Officer Date: March 29, 2017 Date: April 29, 2016 MELLON OVERSEAS INVESTMENT INSIGHT INVESTMENT MANAGEMENT CORPORATION LIMITED By: /S/ KURTIS R. KURIMSKY By: /S/ CHARLES FARQUHARSON \_\_\_\_\_ \_\_\_\_\_\_ Kurtis R. Kurimsky Charles Farquharson Vice President and Controller Chief Risk Officer Date: October 7, 2015 Date: February 16, 2016 BNY INTERNATIONAL FINANCING BNY INTERNATIONAL FINANCING CORPORATION CORPORATION By: /S/ JOHN M. ROY By: /S/ KURTIS R. KURIMSKY \_\_\_\_\_ \_\_\_\_\_

> John M. Roy Vice President

Date: August 15, 2016

Kurtis R. Kurimsky

Date: May 12, 2016

President and Comptroller

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

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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

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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

BNY MELLON INVESTMENT MANAGEMENT (EUROPE)LIMITED

By: /S/ GREG BRISK

\_\_\_\_\_

Greg Brisk Director

Date: October 21, 2015

BNY MELLON INVESTMENT MANAGEMENT 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

BNY MELLON PARTICIPACOES LTDA

By: /S/ MARCUS VINICIUS MATHIAS PEREIRA

Marcus Vinicius Mathias Pereira

Director

Date: May 5, 2016

MELLON GLOBAL INVESTING CORPORATION

By: /S/ LEO P. GROHOWSKI

\_\_\_\_\_

Leo P . Grohowski

President

Date: June 29, 2018

Fund Administrators BNY MELLON SERVICE KAPITALANLAGE-BNY MELLON SERVICE KAPITALANLAGE-GESELLSCHAFT mbH GESELLSCHAFT mbH By: /S/ KATARINA MELVAN By: /S/ CAROLINE SPECHT Katarina Melvan Caroline Specht Managing Director(Chairman) Managing Director Date: August 19, 2016 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/ DONALD HEBERLE By: /S/ MITCHELL E.HARRIS Mitchell E. Harris Donald Heberle Chief Executive Officer, Chief Executive Officer Investment Management Date: March 17, 2017 Date: September 16, 2015 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

Senior Executive Vice President Vice Chairman

Date: August 27, 2015 Date: August 26, 2015

THE BANK OF NEW YORK MELLON TRUST

COMPANY, NATIONAL ASSOCIATION

By: /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

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

BNY MELLON CAPITAL MARKETS, LLC

Chief Operating Officer

Date: October 19, 2015

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

MOBILIARIOS S.A.

By: /S/ CARLOS ALBERTO SARAIVA \_\_\_\_\_\_

Carlos Alberto Saraiva

Director

Date: May 5, 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

T<sub>1</sub>TDA

BNY MELLON ADMINISTRACAO DE ATIVOS

TITDA

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

Carlos Alberto Saraiva

Director

Date: May 5, 2016

Marcus Vinicius Mathias Pereira

BNY MELLON ALOCACAO DE PATRIMONIO

Director

Date: May 5, 2016

BNY MELLON ALOCACAO DE PATRIMONIO

By: /S/ GUSTAVO CASTELLO BRANCO By: /S/ CAMILA SOUZA

Gustavo Castello Branco

Director

Date: January 4, 2016

Date: January 4, 2016

Camila Souza Director

(GLOBAL) LIMITED

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO

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James Bitetto Secretary

Date: July 30, 2015

By: /s/ CHARLES FARQUHARSON Charles Farquharson

INSIGHT INVESTMENT MANAGEMENT

Chief Risk Officer

Date: February 16, 2016

LOCKWOOD ADVISORS, INC.

By: /S/ JOHN J. BRETT

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

John J. Brett Chairman

Date: July 30, 2015

BNY MELLON ASSET MANAGEMENT JAPAN

LIMITED

By: /S/ SHIZU KISHIMOTO

\_\_\_\_\_

Shizu Kishimoto

Representative Director

and President

Date: August 5, 2015

BNY MELLON ASSET MANAGEMENT NORTH AMERICA CORPORATION

By: /S/ JENNIFER CASSEDY

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Jennifer Cassedy Chief Compliance Officer

Date: February 14, 2018

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE

Kenneth J. Bradle President

Date: April 29, 2016

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ JAMES HELBY \_\_\_\_\_

> James Helby Director

Date: July 17, 2015

NEWTON INVESTMENT MANAGEMENT (NORTH AMERICA) LIMITED

By: /S/ JAMES HELBY

\_\_\_\_\_

James Helby

Chief Risk Officer Date: June 30, 2016

WALTER SCOTT & PARTNERS LIMITED

By: /S/ RODGER NISBET

\_\_\_\_\_

Rodger Nisbet

Executive Chairman Date: July 15, 2015

INSIGHT INVESTMENT INTERNATIONAL LIMITED

By: /S/ LEE PALMER

\_\_\_\_\_

Lee Palmer

Chief Compliance Officer

Date: February 14, 2018

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

INSIGHT NORTH AMERICA LLC

By: /S/ JOHN ARIOLA

John Ariola

\_\_\_\_\_

Head of Financial Analysis

Date: December 7, 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

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

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

Greg Brisk Helena Morrissey Director Director Date: October 21, 2015 Date: July 17, 2015

BNY MELLON IHC, LLC MBC INVESTMENTS CORPORATION

By: /S/ KURTIS R. KURIMSKY By: /S/ PAUL A. GRIFFITHS

Kurtis R. Kurimsky Paul A. Griffiths Vice President and Chairman, President and Controller Chief Executive Officer Date: March 29, 2017 Date: April 29, 2016

MELLON OVERSEAS INVESTMENT INSIGHT INVESTMENT MANAGEMENT CORPORATION LIMITED

By: /S/ KURTIS R. KURIMSKY By: /S/ CHARLES FARQUHARSON \_\_\_\_\_ Kurtis R. Kurimsky Charles Farquharson Vice President and Controller
e: October 7, 2015

Dat Chief Risk Officer

Date: October 7, 2015 Date: February 16, 2016

BNY INTERNATIONAL FINANCING BNY INTERNATIONAL FINANCING CORPORATION CORPORATION

By: /S/ KURTIS R. KURIMSKY By: /S/ JOHN M. ROY \_\_\_\_\_ \_\_\_\_\_\_ Kurtis R. Kurimsky John M. Rov

President and Comptroller Vice President Date: May 12, 2016 Date: August 15, 2016

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: October 21, 2015 Date: October 21, 2015

(JERSEY) LIMITED

BNY CAPITAL MARKETS HOLDINGS, INC.

By: /S/ THOMAS P. GIBBONS By: /S/ GREG BRISK \_\_\_\_\_ \_\_\_\_\_ Greg Brisk Thomas P. Gibbons Vice Chairman and Chief Director Financial Officer

Date: October 24, 2015 Date: October 21, 2015

BNY MELLON INVESTMENT MANAGEMENT

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

By: /S/ GREG BRISK By: /S/ GREG BRISK \_\_\_\_\_ \_\_\_\_\_ Greg Brisk Greg Brisk

Director Director

Date: October 21, 2015 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 BNY MELLON PARTICIPACOES LTDA

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

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

Carlos Alberto Saraiva Marcus Vinicius Mathias Pereira

Director Director Date: May 5, 2016 Date: May 5, 2016

BNY MELLON INVESTMENT MANAGEMENT MELLON GLOBAL INVESTING CORPORATION

APAC LP

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

By: /S/ LEO P. GROHOWSKI By: /S/ PAUL A. GRIFFITHS

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

Paul A. Griffiths Leo P . Grohowski

President President

Date: April 29, 2016 Date: June 29, 2018

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

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

BNY MELLON SERVICE KAPITALANLAGE-

GESELLSCHAFT mbH

By: /S/ KATARINA MELVAN By: /S/ CAROLINE SPECHT

Katarina Melvan

Managing Director(Chairman)

Date: August 19, 2016

BNY MELLON SERVICE KAPITALANLAGE-GESELLSCHAFT mbH

Caroline Specht Managing Director Date: August 19, 2016