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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No.5)*

NAME OF ISSUER: Bandwidth Inc.

TITLE OF CLASS OF SECURITIES: Common Stock

CUSIP NUMBER: 05988J103

DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: December 31, 2019

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: 05988J103

- (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	ce of Organization New York				
Number of Shares Beneficially Owned by Each Reporting Person With	(5) Sole Voting Power	1,305,019			
	(6) Shared Voting Power	100			
	(7) Sole Dispositive Power	1,338,177			
	(8) Shared Dispositive Power	17,195			
(9) Aggregate Amount Beneficially Owned by Each Reporting Person1,355,372					
<pre>(10) Check if the Aggregated Amount in Row (9) Excludes Certain Shares (see Instructions) ()</pre>					
(11) Percent of Class Represented by Amount in Row (9) 7.30%					
(12) Type of Reporting Person (See Instructions) HC					
CUSIP NUMBER: 05988J103					
(1)Names of Reporting PersonsBNY Mellon IHC, LIRS Identification Nos. of Above PersonsIRS No.82-21219					
<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 New York					
Number of Shares	(5) Sole Voting Power	1,204,268			

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Beneficially<br/>Owned by Each(6) Shared Voting Power0
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Reporting Person With	(7) Sole Dispositive Power	1,238,555			
Witti	(?) Sole Dispositive Power(8) Shared Dispositive Power				
(9) Aggregate Amount Benefi by Each Reporting Perso	cially Owned	1,254,420			
	Amount in Row (9) Excludes Certain				
(11) Percent of Class Repres	<pre>(11) Percent of Class Represented by Amount in Row (9) 6.76%</pre>				
(12) Type of Reporting Person (See Instructions) HC					
CUSIP NUMBER: 05988J103					
(1) Names of Reporting Persons MBC Investments Corporation IRS Identification Nos. of Above Persons IRS No.51-0301132					
<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	e of Organization	Delaware			
Number of Shares	(5) Sole Voting Power	1,204,268			
Beneficially Owned by Each Reporting Person	(6) Shared Voting Power	Θ			
With	(7) Sole Dispositive Power	1,238,555			
	(8) Shared Dispositive Power	15,865			
(9) Aggregate Amount Benefi by Each Reporting Perso		1,254,420			
(10) Check if the Aggregated Amount in Row (9) Excludes Certain Shares (see Instructions) ()					
(11) Percent of Class Represented by Amount in Row (9) 6.76%					
(12) Type of Reporting Person (See Instructions) HC					
CUSIP NUMBER: 05988J103					
(1) Names of Reporting Persons BNY Mellon Investment Adviser, Inc IRS Identification Nos. of Above Persons IRS No.13-5673135					
<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	e of Organization	New York			
Number of Shares	(5) Sole Voting Power	978,873			
Beneficially Owned by Each Reporting Person With	(6) Shared Voting Power	0			
	(7) Sole Dispositive Power	963,008			
	(8) Shared Dispositive Power	15,865			
	Aggregate Amount Beneficially Owned by Each Reporting Person 978,8				
(10) Check if the Aggregated Amount in Row (9) Excludes Certain Shares (see Instructions) (
(11) Percent of Class Represented by Amount in Row (9) 5.27					
(12) Type of Reporting Perso	12) Type of Reporting Person (See Instructions)IA				

Item 1(b) Address of Issuer's Principal Executive Office: 900 Main Campus Drive Raleigh, North Carolina 27606 United States The Bank of New York Mellon Corporation Item 2(a) Name of Person Filing: and any other reporting person(s) identified on the second part of the cover page(s) and Exhibit I Address of Principal Business Office, or if None, Residence: Item 2(b) C/O The Bank of New York Mellon Corporation 240 Greenwich Street New York, New York 10286 (for all reporting persons) Citizenship: Item 2(c) See cover page and Exhibit I Item 2(d) Title of Class of Securities: Common Stock

Bandwidth Inc.

- CUSIP Number 05988J103
- Item 3 See Item 12 of cover page(s) ("Type of Reporting Person ") for each reporting person.

Symbol Category

Name of Issuer:

Item 1(a)

- BD = Broker or Dealer registered under Section 15 of the Securities Exchange Act of 1934
- BK = Bank as defined in Section 3(a)(6) of the Securities Exchange Act of 1934
- IV = Investment Company registered under Section 8 of the Investment Company Act of 1940
- IA = Investment Advisor registered under Section 203 of the Investment Advisors Act of 1940
- EP = Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund; see Section 240.13 - d(1)(b)(1)(ii)(F)
- HC = Parent Holding Company, in accordance with Section 240.13-d(1)(b)(1)(ii)(G)

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

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

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

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

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

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

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

- Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported by the Parent Holding Company: See Exhibit I.
- Item 8 Identification and Classification of Members of the Group: N/A
- Item 9 Notice of Dissolution of Group: N/A
- Item 10 Certification:

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

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct. This filing is signed by The Bank of New York Mellon Corporation on behalf of all reporting entities pursuant to Rule 13d-1(k)(1) promulgated under the Securities and Exchange Act of 1934, as amended.

Date: February 3, 2020

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)"
 - (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)
 - () The Bank of New York Mellon Trust Company, National Association
 - (X) BNY Mellon, National Association
 - (X) 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.
 - (X) BNY Mellon Investment Adviser, Inc (parent holding company of BNY Mellon Securities Corporation)

- () Insight Investment Management (Global) Limited
- () Insight North America LLC
- (X) Lockwood Advisors, Inc.
- (X) Mellon Investments 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
 - (X) BNY Mellon 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
 - (X) B.N.Y. Holdings (Delaware) Corporation (parent holding company of BNY Mellon Trust of Delaware)
 - (X) BNY Mellon IHC, LLC (as parent holding company of MBC Investments Corporation)
 - (X) MBC Investments Corporation (parent holding company of Mellon Investments Corporation; BNY Mellon Investment Management(Jersey) Ltd.; BNY Mellon Investment Management APAC LP; BNY Mellon Investment Adviser, Inc.; 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 ÁPAC 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
 - () 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)
 - () 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)

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 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 Ho		nies
THE BANK OF NEW YORK MELL CORPORATION	ON	BNY MELLO	N, NATIONAL ASSOCIATION
By: /S/ MITCHELL E.HARRIS		By: /S/ [ONALD HEBERLE
Mitchell E. Harris Chief Executive Offic Investment Management	,		ld Heberle f Executive Officer
Date: March 17, 2017		Date: Se	ptember 16, 2015
BNY MELLON, NATIONAL ASSO	CIATION	THE BANK	OF NEW YORK MELLON SA/NV
By: /S/ THOMAS J. DICKER		By: /S/ L	AURA AHTO
Thomas J. Dicker Chief Operating Offic Date: October 9, 2015	er	Chief	Ahto Executive Officer 17, 2016

THE BANK OF NEW YORK MELLON THE BANK OF NEW YORK MELLON By: /S/ CURTIS ARLEDGE By: /S/ MITCHELL E. HARRIS Mitchell E. Harris Curtis Arledge Vice Chairman Senior Executive Vice President Date: September 18, 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/ KURTIS R. KURIMSKY By: /S/ ANTONIO PORTUONDO -----Antonio Portuondo Kurtis R. Kurimsky Executive Vice President 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 James P. Ambagis Lee James Woolley President Chairman and Chief Executive Officer Date: October 19, 2015 Date: October 21, 2015 Investment Advisers and/or Broker-Dealers _____ PERSHING LLC BNY MELLON CAPITAL MARKETS, LLC By: /S/ CLAIRE SANTANIELLO By: /S/ JEFF GEARHART Jeff Gearhart Claire Santaniello Chief Administrative Officer Chief Operating Officer and Chief Risk Officer Date: May 24, 2016 Date: October 19, 2016 ARX INVESTIMENTOS LTDA ARX INVESTIMENTOS LTDA By: /S/ CAMILA SOUZA By: /S/ GUILHERME ABRY ------Camila Souza Guilherme Abry Director Director Date: January 4, 2016 Date: January 4, 2016 BNY MELLON SERVICOS FINANCEIROS BNY MELLON SERVICOS FINANCEIROS DISTRIBUIDORA DE TITULOS E VALORES DISTRIBUIDORA DE TITULOS E VALORES MOBILIARIOS S.A. MOBILIARIOS S.A. By: /S/ 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 ADMINISTRACAO DE ATIVOS BNY MELLON ADMINISTRACAO DE ATIVOS I TDA 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 ALOCACAO DE PATRIMONIO BNY MELLON ALOCACAO DE PATRIMONIO LTDA LTDA By: /S/ CAMILA SOUZA By: /S/ GUSTAVO CASTELLO BRANCO ------Gustavo Castello Branco Camila Souza Director Director Date: January 4, 2016 Date: January 4, 2016

BNY MELLON INVESTMENT ADVISER, INC

By: /S/ JAMES BITETTO James Bitetto Secretary Date: June 03, 2019

LOCKWOOD ADVISORS, INC.

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

Date: July 30, 2015

MELLON INVESTMENTS CORPORATION

By: /S/ JENNIFER CASSEDY Jennifer Cassedy Chief Compliance Officer Date: January 10, 2019

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

INSIGHT INVESTMENT MANAGEMENT (GLOBAL) LIMITED By: /s/ CHARLES FARQUHARSON Charles Farguharson Chief Risk Officer Date: February 16, 2016 BNY MELLON ASSET MANAGEMENT JAPAN LIMITED By: /S/ SHIZU KISHIMOTO -----Shizu Kishimoto Representative Director and President Date: August 5, 2015 BNY MELLON SECURITIES CORPORATION By: /S/ KENNETH J. BRADLE Kenneth J. Bradle President Date: June 03, 2019 NEWTON INVESTMENT MANAGEMENT (NORTH AMERICA) LIMITED By: /S/ JAMES HELBY -----James Helby Chief Risk Officer Date: June 30, 2016 INSIGHT INVESTMENT INTERNATIONAL I TMTTFD By: /S/ LEE PALMER Lee Palmer Chief Compliance Officer Date: February 14, 2018 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 By: /S/ CLAIRE SANTANIELLO James P. Ambagis Claire Santaniello President Chief Administrative Officer and Chief Risk Officer Date: May 11, 2016 Date: October 21, 2015 BNY MELLON INVESTMENT MANAGEMENT BNY MELLON INVESTMENT MANAGEMENT (APAC) HOLDINGS LIMITED (APAC) HOLDINGS LIMITED By: /S/ EMILY CHAN By: /S/ DONI SHAMSUDDIN Doni Shamsuddin Emily Chan 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: July 17, 2015 Date: October 21, 2015 MBC INVESTMENTS CORPORATION BNY MELLON IHC, LLC By: /S/ KURTIS R. KURIMSKY By: /S/ PAUL A. GRIFFITHS Kurtis R. Kurimsky Paul A. Griffiths Chairman, President and Vice President and Controller Chief Executive Officer Date: March 29, 2017 Date: April 29, 2016 INSIGHT INVESTMENT MANAGEMENT MELLON OVERSEAS INVESTMENT CORPORATION LIMITED By: /S/ KURTIS R. KURIMSKY By: /S/ CHARLES FARQUHARSON -----Charles Farquharson Kurtis R. Kurimsky 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/ KURTIS R. KURIMSKY By: /S/ JOHN M. ROY -----------Kurtis R. Kurimsky John M. Roy President and Comptroller Vice President Date: May 12, 2016 Date: August 15, 2016 BNY MELLON INVESTMENT MANAGEMENT BNY MELLON INVESTMENT MANAGEMENT (EUROPE)LIMITED EUROPE HOLDINGS LIMITED By: /S/ GREG BRISK By: /S/ GREG BRISK Greg Brisk Greg Brisk Director Director Date: October 21, 2015 Date: October 21, 2015 BNY MELLON INVESTMENT MANAGEMENT BNY CAPITAL MARKETS HOLDINGS, INC. (JERSEY)LIMITED

By: /S/ GREG BRISK Greg Brisk By: /S/ THOMAS P. GIBBONS Thomas P. Gibbons

Vice Chairman and Chief Director Financial Officer Date: October 21, 2015 Date: October 24, 2015 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 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/ PAUL A. GRIFFITHS By: /S/ LEO P. GROHOWSKI Paul A. Griffiths Leo P . Grohowski President President Date: April 29, 2016 Date: June 29, 2018 _____ Fund Administrators · BNY MELLON SERVICE KAPITALANLAGE-BNY MELLON SERVICE KAPITALANLAGE-GESELLSCHAFT mbH GESELLSCHAFT mbH By: /S/ CAROLINE SPECHT By: /S/ KATARINA MELVAN -----Caroline Specht Katarina Melvan 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 1 _____ 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 Senior Executive Vice President Vice Chairman 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. Kurimsky 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 James P. Ambagis Lee James Woolley President Chairman and Chief Executive Officer Date: October 21, 2015 Date: October 19, 2015 _____ Investment Advisers and/or Broker-Dealers _____ PERSHING LLC BNY MELLON CAPITAL MARKETS, LLC By: /S/ JEFF GEARHART By: /S/ CLAIRE SANTANIELLO -----Jeff Gearhart 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

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 Carlos Alberto Saraiva Director Date: May 5, 2016

BNY MELLON ALOCACAO DE PATRIMONIO LTDA

By: /S/ GUSTAVO CASTELLO BRANCO Gustavo Castello Branco Director Date: January 4, 2016

BNY MELLON INVESTMENT ADVISER, INC

By: /S/ JAMES BITETTO James Bitetto Secretary Date: June 03, 2019

LOCKWOOD ADVISORS, INC.

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

Date: July 30, 2015

MELLON INVESTMENTS CORPORATION

By: /S/ JENNIFER CASSEDY Jennifer Cassedy Chief Compliance Officer Date: January 10, 2019

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ JAMES HELBY James Helby

Chief Operating Officer Date: October 19, 2016 ARX INVESTIMENTOS LTDA 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/ 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 INSIGHT INVESTMENT MANAGEMENT (GLOBAL) LIMITED By: /s/ CHARLES FARQUHARSON Charles Farquharson Chief Risk Officer Date: February 16, 2016 BNY MELLON ASSET MANAGEMENT JAPAN LIMITED By: /S/ SHIZU KISHIMOTO Shizu Kishimoto

Representative Director and President Date: August 5, 2015

BNY MELLON SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE Kenneth J. Bradle President Date: JUNE 03, 2019

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

INSIGHT NORTH AMERICA LLC

By: /S/ JOHN ARIOLA John Ariola Head of Financial Analysis Date: December 7, 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 -----Greg Brisk Director Date: October 21, 2015

BNY MELLON IHC, LLC

By: /S/ KURTIS R. KURIMSKY

Chief Risk Officer Date: June 30, 2016

INSIGHT INVESTMENT INTERNATIONAL LIMITED By: /S/ LEE PALMER ------Lee Palmer Chief Compliance Officer Date: February 14, 2018

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

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

Kurtis R. Kurimsky Vice President and Controller Date: March 29, 2017

MELLON OVERSEAS INVESTMENT CORPORATION

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 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 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 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

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

----------Paul A. Griffiths Leo P . Grohowski President President Date: April 29, 2016 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 -----------Caroline Specht Katarina Melvan Managing Director Date: August 19, 2016 Managing Director(Chairman) Date: August 19, 2016