

Edgar Filing: APPLIED MICRO CIRCUITS CORP - Form SC 13G/A

APPLIED MICRO CIRCUITS CORP  
Form SC 13G/A  
July 11, 2016

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: Applied Micro Circuits Corporation

TITLE OF CLASS OF SECURITIES: Common Stock

CUSIP NUMBER: 03822W406

DATE OF EVENT WHICH REQUIRES FILING OF THIS STATEMENT: June 30, 2016

Check the appropriate box to designate the rule pursuant to which this  
Schedule is filed:

- 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: 03822W406

- (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 3,525,938  
Beneficially  
Owned by Each (6) Shared Voting Power 0  
Reporting Person  
With (7) Sole Dispositive Power 3,550,831  
(8) Shared Dispositive Power 0
- (9) Aggregate Amount Beneficially Owned  
by Each Reporting Person 3,551,467
- (10) Check if the Aggregated Amount in Row (9) Excludes Certain

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Shares (see Instructions) ( )  
(11) Percent of Class Represented by Amount in Row (9) 4.16%  
(12) Type of Reporting Person (See Instructions) HC

SCHEDULE 13G

Item 1(a) Name of Issuer: Applied Micro Circuits Corporation

Item 1(b) Address of Issuer's Principal Executive Office:

215 Moffett Park Drive  
Sunnyvale, CA 94089  
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: Common Stock

CUSIP Number 03822W406

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
- 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.

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

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

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

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

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

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

Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported by the Parent Holding Company:  
See Exhibit I.

Item 8 Identification and Classification of Members of the Group: N/A

Item 9 Notice of Dissolution of Group: 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

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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: July 11, 2016

THE BANK OF NEW YORK MELLON CORPORATION

By: /s/ NICHOLAS R. DARROW

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

EXHIBIT I

The shares reported on the attached Schedule 13G are beneficially owned by the following direct or indirect subsidiaries of The Bank of New York Mellon Corporation, as marked (X):

- (A) The Item 3 classification of each of the subsidiaries listed below is "Item 3(b) Bank as defined in Section 3(a)(6) of the Act" (15 U.S.C. 78c) or "Item 3(j)A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J)"
- (X) The Bank of New York Mellon
  - ( ) The Bank of New York Mellon Trust Company, National Association
  - (X) BNY Mellon, National Association
  - ( ) BNY Mellon Trust of Delaware
- (B) The Item 3 classification of each of the subsidiaries listed below is "Item 3(e) An investment adviser in accordance with Section 240.13d-1(b)(1)(ii)(E)" or "Item 3(j) A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J)"
- ( ) BNY Mellon ARX Investimentos Ltda (parent holding company of BNY Mellon Ativos Financeiros Ltda)
  - (X) The Boston Company Asset Management LLC
  - (X) The Dreyfus Corporation (parent holding company of MBSC Securities Corporation)
  - ( ) Insight Investment Management (Global) Limited
  - ( ) Lockwood Advisors, Inc.
  - (X) Mellon Capital Management Corporation
  - ( ) Newton Investment Management (North America) Limited
  - ( ) Newton Investment Management Limited
  - ( ) Standish Mellon Asset Management Company LLC
  - ( ) CenterSquare Investment Management, Inc.
  - ( ) CenterSquare Investment Management Holdings, Inc.
  - ( ) Walter Scott & Partners Limited
  - ( ) BNY Mellon Wealth Management, Advisory Services, Inc.
  - ( ) BNY Mellon Trust Company(Cayman) Limited
  - ( ) BNY Mellon Investment Management Cayman Limited
  - ( ) Cutwater Asset Management Corporation
  - ( ) Cutwater Investor Services Corporation
- (C) The Item 3 classification of each of the subsidiaries listed below is "Item 3(a) Broker or dealer registered under Section 15 of the Act" (15 U.S.C. 78c) or "Item 3(j) A non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J)"
- ( ) BNY Mellon Capital Markets, LLC.
  - ( ) MBSC Securities Corporation

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( ) Pershing LLC

(D) The Item 3 classification of each of the subsidiaries listed below is "Item 3(g) a parent holding company or control person in accordance with Rule 13d-1(b) (1) (ii) (G) "

- (X) The Bank of New York Mellon Corporation
- ( ) B.N.Y. Holdings (Delaware) Corporation (parent holding company of BNY Mellon Trust of Delaware)
- ( ) Insight Investment Management Limited (parent holding company of Insight Investment Management (Global) Limited)
- (X) MAM (MA) Holding Trust (parent holding company of Standish Mellon Asset Management Company LLC; The Boston Company Asset Management LLC)
- (X) MBC Investments Corporation (parent holding company of Mellon Capital Management Corporation; BNY Mellon Investment Management (Jersey) Ltd.)
- ( ) BNY Mellon Investment Management (Jersey) Ltd. (parent holding company of BNY Mellon Investment Management (Europe) Ltd.)
- ( ) BNY Mellon Investment Management (Europe) Ltd. (parent holding company of BNY Mellon Investment Management Europe Holdings Ltd.; BNY Mellon Investment Management Cayman Limited)
- ( ) BNY Mellon Investment Management Europe Holdings Ltd. (parent holding company of BNY Mellon International Asset Management Group Limited)
- ( ) BNY Mellon International Asset Management Group Limited (parent holding company of Newton Management Limited; BNY Mellon International Asset Management (Holdings) Limited; Insight Investment Management Limited)
- ( ) BNY Mellon Asset Management International Holdings Limited (parent holding company of BNY Mellon Asset Management Japan Limited)
- ( ) Mellon Overseas Investment Corporation (parent holding company to BNY Mellon Servicos Financeiros Distribuidora de Titulos e Valores Mobiliarios S.A. and (indirect) BNY Mellon Gestao de Patrimonio Ltda Mellon Canada Holding Company)
- ( ) Newton Management Limited (parent holding company of Newton Investment Management (North America) Limited; Newton Investment Management Limited)
- ( ) Pershing Group LLC (parent holding company of Lockwood Advisors, Inc. and Pershing LLC)
- ( ) The Bank of New York Mellon SA/NV (parent holding company of BNY Mellon Service Kapitalanlage-Gesellschaft mbH)
- ( ) BNY Mellon International Asset Management (Holdings) Limited (parent holding company of BNY Mellon International Asset Management (Holdings) No. 1 Limited)
- ( ) BNY Mellon International Asset Management (Holdings) No. 1 Limited (parent holding company of Walter Scott & Partners Limited)
- ( ) Mellon Canada Holding Company (parent holding company of BNY Mellon Wealth Management, Advisory Services, Inc)
- ( ) BNY International Financing Corporation (parent holding company of BNY Mellon Trust Company (Cayman) Limited)
- ( ) BNY Capital Markets Holdings, Inc. (parent holding company of BNY Mellon Capital Markets, LLC.)
- ( ) Cutwater Holdings, LLC (parent holding company of Cutwater Asset Management Corporation; Cutwater Investor Services Corporation)

NOTE: ALL OF THE LEGAL ENTITIES LISTED UNDER (A), (B), (C) AND (D) ABOVE ARE DIRECT OR INDIRECT SUBSIDIARIES OF THE BANK OF NEW YORK MELLON CORPORATION. BENEFICIAL OWNERSHIP OF MORE THAN FIVE PERCENT OF THE CLASS BY ANY ONE OF THE SUBSIDIARIES OR INTERMEDIATE PARENT HOLDING COMPANIES LISTED ABOVE IS REPORTED ON A JOINT REPORTING PERSON PAGE FOR THAT SUBSIDIARY ON THE ATTACHED SCHEDULE 13G AND IS INCORPORATED IN THE TOTAL PERCENT OF CLASS REPORTED ON THE BANK OF NEW YORK MELLON CORPORATION'S REPORTING PERSON PAGE. (DO NOT ADD THE SHARES OR PERCENT OF CLASS REPORTED ON EACH JOINT REPORTING PERSON PAGE ON THE ATTACHED

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SCHEDULE 13G TO DETERMINE THE TOTAL PERCENT OF CLASS FOR THE BANK OF NEW YORK MELLON CORPORATION).

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS that each of the undersigned (each a "Company") does hereby make, constitute and appoint each of Kenneth J. Bradle, John E. Thomas, Jr., Nicholas R. Darrow, (and any other employee of The Bank of New York Mellon Corporation, or one of its affiliates, designated in writing by one of the attorneys-in-fact), acting individually, its true and lawful attorney, to execute and deliver in its name and on its behalf, whether the Company is acting individually or as representative of others, any and all filings, be they written or oral, required to be made by the Company with respect to securities which may be deemed to be beneficially owned by the Company or under the Company's investment discretion under:

\*the Securities Exchange Act of 1934, as amended (the "Exchange Act"), including those filings required to be submitted on Form 13F, Schedule 13G and Form SH, and

\*the laws of any jurisdiction other than the United States of America, including those filings made to disclose securities holdings as required to be submitted to regulatory agencies, exchanges and/or issuers,

giving and granting unto each said attorney-in-fact power and authority to correspond with issuers, regulatory authorities, and other entities as is required in support of the filings referenced above, and to act in the premises as fully and to all intents and purposes as the Company might or could do to comply with the applicable regulations if personally present by one of its authorized signatories (including, but not limited to, instructing local counsel on a Company's behalf), hereby ratifying and confirming all that said attorney-in-fact shall lawfully do or cause to be done by virtue hereof.

THIS POWER OF ATTORNEY shall remain in full force and effect until either revoked in writing by the Company or until such time as the person or persons to whom power of attorney has been hereby granted cease(s) to be an employee of The Bank of New York Mellon Corporation or one of its affiliates.

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

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

-----  
| Banks/Bank Holding Companies |  
-----

THE BANK OF NEW YORK MELLON CORPORATION

BNY MELLON, NATIONAL ASSOCIATION

By: /S/ RONALD P. O'HANLEY

By: /S/ GERALD L. HASSELL

-----  
Ronald P. O'Hanley  
Vice Chairman

-----  
Gerald L. Hassell  
President

Date: October 12, 2009

Date: October 12, 2009

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THE BANK OF NEW YORK MELLON

By: /S/ GERALD L. HASSELL

-----  
Gerald L. Hassell  
President

Date: October 12, 2009

THE BANK OF NEW YORK MELLON

By: /S/ DONALD R. MONKS

-----  
Donald R. Monks  
Vice Chairman

Date: October 12, 2009

THE BANK OF NEW YORK MELLON TRUST  
COMPANY, NATIONAL ASSOCIATION

By: /S/ KAREN A. BAYZ

-----  
Karen A. Bayz  
Managing Director and  
Chief Financial Officer

Date: October 13, 2009

THE BANK OF NEW YORK MELLON TRUST  
COMPANY, NATIONAL ASSOCIATION

By: /S/ JOHN A. PARK

-----  
John A. Park  
Executive Vice President

Date: October 9, 2009

BNY MELLON TRUST OF DELAWARE

By: /S/ DAVID B. KUTCH

-----  
David B. Kutch  
Chairman and  
Chief Executive Officer

Date: October 12, 2009

BNY MELLON TRUST OF DELAWARE

By: /S/ DONALD R. MONKS

-----  
Donald R. Monks  
Senior Executive Vice President

Date: October 12, 2009

-----  
| Investment Advisers and/or Broker-Dealers |  
-----

PERSHING LLC

By: /S/ GARY JOHNSON

-----  
Gary Johnson  
Managing Director

Date: December 10, 2010

BNY MELLON CAPITAL MARKETS

By: /S/ GARY STRUMERYER

-----  
Gary Strumeyer  
President

Date: January 31, 2014

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ JOSE CARLOS LOPES XAVIER  
DE OLIVEIRA

-----  
Jose Carlos Lopes Xavier De Oliveira  
Chief Executive Officer

Date: January 4, 2010

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ MARCELO PERIERA DA SILVA

-----  
Marcelo Periera da Silva  
Chief Financial Officer

Date: January 4, 2010

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

By: /S/ JOSE CARLOS LOPES XAVIER  
DE OLIVEIRA

-----  
Jose Carlos Lopes Xavier De Oliveira

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

By: /S/ MARCELO PERIERA DA SILVA

-----  
Marcelo Periera da Silva

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Chief Executive Officer  
Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS  
LTDA

By: /S/ JOSE CARLOS LOPES XAVIER  
DE OLIVEIRA

-----  
Jose Carlos Lopes Xavier De Oliveira  
Chief Executive Officer

Date: January 4, 2010

Chief Financial Officer  
Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS  
LTDA

By: /S/ MARCELO PERIERA DA SILVA

-----  
Marcelo Periera da Silva  
Chief Financial Officer

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ JOSE CARLOS LOPES XAVIER  
DE OLIVEIRA

-----  
Jose Carlos Lopes Xavier De Oliveira  
Chief Executive Officer

Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ MARCELO PERIERA DA SILVA

-----  
Marcelo Periera da Silva  
Chief Financial Officer

Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT  
LLC

By: /S/ DAVE CAMERON

-----  
Dave Cameron  
Chairman, President and  
Chief Executive Officer

Date: October 12, 2009

THE BOSTON COMPANY ASSET MANAGEMENT  
LLC

By: /S/ JOSEPH P. GENNACO

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

Date: October 12, 2009

BNY MELLON ASSET MANAGEMENT JAPAN  
LIMITED

By: /S/ SHOGO YAMAGUCHI

-----  
Shogo Yamaguchi  
President and  
Representative Director

Date: December 29, 2009

BNY MELLON ASSET MANAGEMENT JAPAN  
LIMITED

By: /S/ DAVID JIANG

-----  
David Jiang  
Chairman and  
Representative Director

Date: December 29, 2009

THE DREYFUS CORPORATION

By: /S/ JAMES BITETTO

-----  
James Bitetto  
Corporate Secretary

Date: October 7, 2009

INSIGHT INVESTMENT (Global)  
MANAGEMENT LIMITED

By: /s/ CHARLES FARQUHARSON

-----  
Charles Farquharson  
Chief Risk Officer

Date: December 04, 2009

LOCKWOOD ADVISORS, INC.

By: /S/ DON MARCHESIELLO

-----  
Don Marchesiello



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President  
Date: October 6, 2009

MELLON CAPITAL MANAGEMENT  
CORPORATION

By: /S/ CHARLES J. JACKLIN  
-----  
Charles J. Jacklin  
President and CEO  
Date: October 8, 2009

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE  
-----  
Kenneth J. Bradle  
President  
Date: October 28, 2009

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS  
-----  
Andrew Downs  
Chief Operating Officer  
Date: November 6, 2009

NEWTON INVESTMENT MANAGEMENT  
(NORTH AMERICA) LIMITED

By: /S/ JAMES HELBY  
-----  
James Helby  
Chief Risk Officer  
Date: June 30, 2016

STANDISH MELLON ASSET MANAGEMENT  
COMPANY LLC

By: /S/ DESMOND MAC INTYRE  
-----  
Desmond Mac Intyre  
President and CEO  
Date: November 19, 2009

PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA  
-----  
Brian T. Shea  
Managing Director  
Date: October 9, 2009

CENTERSQUARE INVESTMENT MANAGEMENT  
HOLDINGS, INC.

By: /S/ R. JOSEPH LAW  
-----  
R. Joseph Law  
Chief Financial and  
Compliance Officer  
Date: June 26, 2013

CENTERSQUARE INVESTMENT MANAGEMENT,  
INC.

By: /S/ R. JOSEPH LAW  
-----  
R. Joseph Law  
Chief Financial and  
Compliance Officer  
Date: June 26, 2013

WALTER SCOTT & PARTNERS LIMITED

By: /S/ ANNA NICHOLL  
-----  
Anna Nicholl  
Chief Compliance Officer  
Date: October 8, 2009

WALTER SCOTT & PARTNERS LIMITED

By: /S/ CAROL-ANN FRASER  
-----  
Carol-Ann Fraser  
Compliance Officer  
Date: October 8, 2009

BNY MELLON WEALTH MANAGEMENT,  
ADVISORY SERVICES, INC.

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

BNY MELLON TRUST COMPANY  
(CAYMAN) LIMITED

By: /S/ DONALD J. HEBERLE  
-----  
Donald J. Heberle  
Executive Vice President  
Date: December 5, 2012

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BNY MELLON INVESTMENT MANAGEMENT  
CAYMAN LTD.

By: /S/ BRENDON J. DONNELLAN  
-----

Brendon J. Donnellan  
Director  
Date: June 16, 2013

CUTWATER ASSET MANAGEMENT  
CORPORATION

By: /S/ CLIFFORD CORSO  
-----

Clifford Corso  
Chief Executive Officer  
Date: March 16, 2015

CUTWATER INVESTOR SERVICES CORPORATION

By: /S/ CLIFFORD CORSO  
-----

Clifford Corso  
Chief Executive Officer  
Date: March 16, 2015

-----  
| Parent Holding Companies/Control Persons |  
-----

B.N.Y. HOLDINGS (DELAWARE) CORPORATION

By: /S/ JOHN A. PARK  
-----

John A. Park  
Senior Vice President  
Date: October 9, 2009

BNY MELLON ASSET MANAGEMENT  
INTERNATIONAL HOLDINGS LIMITED

By: /S/ GREG BRISK  
-----

Greg Brisk  
Director  
Date: October 12, 2009

BNY MELLON ASSET MANAGEMENT  
INTERNATIONAL HOLDINGS LIMITED

By: /S/ SHONA SPENCE  
-----

Shona Spence  
Director  
Date: October 15, 2009

BNY MELLON INTERNATIONAL ASSET  
MANAGEMENT GROUP LIMITED

By: /S/ JEREMY N. BASSIL  
-----

Jeremy N. Bassil  
Director  
Date: October 13, 2009

MAM (MA) HOLDING TRUST

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

Ronald P. O'Hanley  
President  
Date: October 9, 2009

MBC INVESTMENTS CORPORATION

By: /S/ GORDON MOTTER  
-----

Gordon Motter  
Chairman, President and CEO  
Date: October 9, 2009

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NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS

-----  
Andrew Downs  
Chief Operating Officer

Date: November 6, 2009

NEWTON INVESTMENT MANAGEMENT  
(NORTH AMERICA) LIMITED

By: /S/ JAMES HELBY

-----  
James Helby  
Chief Risk Officer

Date: June 30, 2016

MELLON OVERSEAS INVESTMENT  
CORPORATION

By: /S/ JON LITTLE

-----  
Jon Little  
Chairman, President And  
Chief Executive Officer

Date: December 04, 2009

INSIGHT INVESTMENT MANAGEMENT  
LIMITED

By: /S/ CHARLES FARQUHARSON

-----  
Charles Farquharson  
Chief Risk Officer

Date: December 04, 2009

BNY INTERNATIONAL FINANCING  
CORPORATION

By: /S/ FRED RICCIARDI

-----  
Fred Ricciardi  
President

Date: August 30, 2010

THE BANK OF NEW YORK MELLON SA/NV

By: /S/ JEAN-CHRISTOPHE MATHONET

-----  
Jean-Christophe Mathonet  
Managing Director

Date: October 4, 2010

BNY MELLON INVESTMENT MANAGEMENT  
EUROPE HOLDINGS LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: March 14, 2013

BNY MELLON INVESTMENT MANAGEMENT  
(EUROPE) LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: March 14, 2013

BNY MELLON INVESTMENT MANAGEMENT  
(JERSEY) LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: March 14, 2013

BNY CAPITAL MARKETS HOLDINGS, INC.

By: /S/ THOMAS P. GIBBONS

-----  
Thomas P. Gibbons  
Vice Chairman & CFO

Date: January 31, 2014

BNY MELLON INTERNATIONAL ASSET  
MANAGEMENT (HOLDINGS) LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: April 5, 2013

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

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: April 5, 2013

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MELLON CANADA HOLDING COMPANY

BNY INTERNATIONAL FINANCING  
CORPORATION

By: /S/ JOHN REHOB

-----  
John Rehob  
President

Date: August 06, 2013

CUTWATER HOLDINGS LLC

By: /S/ CLIFFORD CORSO

-----  
Clifford Corso  
Chief Executive Officer

Date: March 16, 2015

-----  
| Fund Administrators |  
-----

BNY MELLON SERVICE KAPITALANLAGE-  
GESELLSCHAFT mbH

By: /S/ CAROLINE SPECHT

-----  
Caroline Specht  
Managing Director, Head of  
Business Strategy and Legal

Date: August 24, 2010

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), the undersigned hereby agree to any and all joint filings required to be made on their behalf on Schedule 13G (including amendments thereto) under the Exchange Act, with respect to securities which may be deemed to be beneficially owned by them under the Exchange Act, and that this Agreement be included as an Exhibit to any such joint filing. This Agreement may be executed in any number of counterparts all of which taken together shall constitute one and the same instrument.

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

-----  
| Banks/Bank Holding Companies |  
-----

THE BANK OF NEW YORK MELLON  
CORPORATION

BNY MELLON, NATIONAL ASSOCIATION

By: /S/ RONALD P. O'HANLEY

-----  
Ronald P. O'Hanley

By: /S/ GERALD L. HASSELL

-----  
Gerald L. Hassell

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Vice Chairman  
Date: October 09, 2009

President  
Date: October 12, 2009

THE BANK OF NEW YORK MELLON

THE BANK OF NEW YORK MELLON

By: /S/ GERALD L. HASSELL  
-----

By: /S/ DONALD R. MONKS  
-----

Gerald L. Hassell  
President

Donald R. Monks  
Vice Chairman

Date: October 12, 2009

Date: October 12, 2009

THE BANK OF NEW YORK MELLON TRUST  
COMPANY, NATIONAL ASSOCIATION

THE BANK OF NEW YORK MELLON TRUST  
COMPANY, NATIONAL ASSOCIATION

By: /S/ KAREN A. BAYZ  
-----

By: /S/ JOHN A. PARK  
-----

Karen A. Bayz  
Managing Director and  
Chief Financial Officer

John A. Park  
Executive Vice President

Date: October 13, 2009

Date: October 9, 2009

BNY MELLON TRUST OF DELAWARE

BNY MELLON TRUST OF DELAWARE

By: /S/ DAVID B. KUTCH  
-----

By: /S/ DONALD R. MONKS  
-----

David B. Kutch  
Chairman and  
Chief Executive Officer

Donald R. Monks  
Senior Executive Vice President

Date: October 12, 2009

Date: October 12, 2009

-----  
| Investment Advisers and/or Broker-Dealers |  
-----

PERSHING LLC

BNY MELLON CAPITAL MARKETS

By: /S/ GARY JOHNSON  
-----

By: /S/ GARY STRUMERYER  
-----

Gary Johnson  
Managing Director  
Date: December 10, 2010

Gary Strumeyer  
President  
Date: January 31, 2014

BNY MELLON ARX INVESTIMENTOS LTDA

BNY MELLON ARX INVESTIMENTOS LTDA

By: /S/ JOSE CARLOS LOPES XAVIER  
DE OLIVEIRA  
-----

By: /S/ MARCELO PERIERA DA SILVA  
-----

Jose Carlos Lopes Xavier De Oliveira  
Chief Executive Officer

Marcelo Periera da Silva  
Chief Financial Officer

Date: January 4, 2010

Date: January 4, 2010

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

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

By: /S/ JOSE CARLOS LOPES XAVIER

By: /S/ MARCELO PERIERA DA SILVA

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DE OLIVEIRA

-----  
Jose Carlos Lopes Xavier De Oliveira  
Chief Executive Officer  
Date: January 4, 2010

-----  
Marcelo Periera da Silva  
Chief Financial Officer  
Date: January 4, 2010

BNY MELLON ARX ATIVOS FINANCEIROS  
LTDA

BNY MELLON ARX ATIVOS FINANCEIROS  
LTDA

By: /S/ JOSE CARLOS LOPES XAVIER  
DE OLIVEIRA

By: /S/ MARCELO PERIERA DA SILVA

-----  
Jose Carlos Lopes Xavier De Oliveira  
Chief Executive Officer  
Date: January 4, 2010

-----  
Marcelo Periera da Silva  
Chief Financial Officer  
Date: January 4, 2010

BNY MELLON GESTAO DE PATRIMONIO LTDA

BNY MELLON GESTAO DE PATRIMONIO LTDA

By: /S/ JOSE CARLOS LOPES XAVIER  
DE OLIVEIRA

By: /S/ MARCELO PERIERA DA SILVA

-----  
Jose Carlos Lopes Xavier De Oliveira  
Chief Executive Officer  
Date: January 4, 2010

-----  
Marcelo Periera da Silva  
Chief Financial Officer  
Date: January 4, 2010

THE BOSTON COMPANY ASSET MANAGEMENT  
LLC

THE BOSTON COMPANY ASSET MANAGEMENT  
LLC

By: /S/ DAVE CAMERON

By: /S/ JOSEPH P. GENNACO

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

-----  
Joseph P. Gennaco  
Executive Vice President  
and Chief Operating Officer  
Date: October 12, 2009

BNY MELLON ASSET MANAGEMENT JAPAN  
LIMITED

BNY MELLON ASSET MANAGEMENT JAPAN  
LIMITED

By: /S/ SHOGO YAMAGUCHI

By: /S/ DAVID JIANG

-----  
Shogo Yamaguchi  
President and  
Representative Director  
Date: December 29, 2009

-----  
David Jiang  
Chairman and  
Representative Director  
Date: December 29, 2009

THE DREYFUS CORPORATION

INSIGHT INVESTMENT (Global)  
MANAGEMENT LIMITED

By: /S/ JAMES BITETTO

By: /s/ CHARLES FARQUHARSON

-----  
James Bitetto  
Corporate Secretary  
Date: October 7, 2009

-----  
Charles Farquharson  
Chief Risk Officer  
Date: December 04, 2009

LOCKWOOD ADVISORS, INC.

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By: /S/ DON MARCHESIELLO  
-----  
Don Marchesiello  
President  
Date: October 6, 2009

MELLON CAPITAL MANAGEMENT  
CORPORATION

By: /S/ CHARLES J. JACKLIN  
-----  
Charles J. Jacklin  
President and CEO  
Date: October 8, 2009

NEWTON INVESTMENT MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS  
-----  
Andrew Downs  
Chief Operating Officer  
Date: November 6, 2009

STANDISH MELLON ASSET MANAGEMENT  
COMPANY LLC

By: /S/ DESMOND MAC INTYRE  
-----  
Desmond Mac Intyre  
President and CEO  
Date: November 19, 2009

CENTERSQUARE INVESTMENT MANAGEMENT  
HOLDINGS, INC.

By: /S/ R. JOSEPH LAW  
-----  
R. Joseph Law  
Chief Financial and  
Compliance Officer  
Date: June 26, 2013

WALTER SCOTT & PARTNERS LIMITED

By: /S/ ANNA NICHOLL  
-----  
Anna Nicholl  
Chief Compliance Officer  
Date: October 8, 2009

BNY MELLON WEALTH MANAGEMENT,  
ADVISORY SERVICES, INC.

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

MBSC SECURITIES CORPORATION

By: /S/ KENNETH J. BRADLE  
-----  
Kenneth J. Bradle  
President  
Date: October 28, 2009

NEWTON INVESTMENT MANAGEMENT  
(NORTH AMERICA) LIMITED

By: /S/ JAMES HELBY  
-----  
James Helby  
Chief Risk Officer  
Date: June 30, 2016

PERSHING GROUP LLC

By: /S/ BRIAN T. SHEA  
-----  
Brian T. Shea  
Managing Director  
Date: October 9, 2009

CENTERSQUARE INVESTMENT MANAGEMENT,  
INC.

By: /S/ R. JOSEPH LAW  
-----  
R. Joseph Law  
Chief Financial and  
Compliance Officer  
Date: June 26, 2013

WALTER SCOTT & PARTNERS LIMITED

By: /S/ CAROL-ANN FRASER  
-----  
Carol-Ann Fraser  
Compliance Officer  
Date: October 8, 2009

BNY MELLON TRUST COMPANY  
(CAYMAN) LIMITED

By: /S/ DONALD J. HEBERLE  
-----  
Donald J. Heberle  
Executive Vice President

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Date: May 16, 2013

Date: December 5, 2012

BNY MELLON INVESTMENT MANAGEMENT  
CAYMAN LTD.

CUTWATER ASSET MANAGEMENT  
CORPORATION

By: /S/ BRENDON J. DONNELLAN  
-----

By: /S/ CLIFFORD CORSO  
-----

Brendon J. Donnellan  
Director  
Date: June 16, 2013

Clifford Corso  
Chief Executive Officer  
Date: March 16, 2015

CUTWATER INVESTOR SERVICES CORPORATION

By: /S/ CLIFFORD CORSO  
-----

Clifford Corso  
Chief Executive Officer  
Date: March 16, 2015

-----  
| Parent Holding Companies/Control Persons |  
-----

B.N.Y. HOLDINGS (DELAWARE) CORPORATION

By: /S/ JOHN A. PARK  
-----

John A. Park  
Senior Vice President  
Date: October 9, 2009

BNY MELLON ASSET MANAGEMENT  
INTERNATIONAL HOLDINGS LIMITED

BNY MELLON ASSET MANAGEMENT  
INTERNATIONAL HOLDINGS LIMITED

By: /S/ GREG BRISK  
-----

By: /S/ SHONA SPENCE  
-----

Greg Brisk  
Director  
Date: October 12, 2009

Shona Spence  
Director  
Date: October 15, 2009

BNY MELLON INTERNATIONAL ASSET  
MANAGEMENT GROUP LIMITED

By: /S/ JEREMY N. BASSIL  
-----

Jeremy N. Bassil  
Director  
Date: October 13, 2009

MAM (MA) HOLDING TRUST

MBC INVESTMENTS CORPORATION

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

By: /S/ GORDON MOTTER  
-----

Ronald P. O'Hanley  
President  
Date: October 9, 2009

Gordon Motter  
Chairman, President and CEO  
Date: October 9, 2009



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NEWTON MANAGEMENT LIMITED

By: /S/ HELENA MORRISSEY

-----  
Helena Morrissey  
Director

Date: October 15, 2009

NEWTON MANAGEMENT LIMITED

By: /S/ ANDREW DOWNS

-----  
Andrew Downs  
Director

Date: November 6, 2009

MELLON OVERSEAS INVESTMENT  
CORPORATION

By: /S/ JON LITTLE

-----  
Jon Little  
Chairman, President And  
Chief Executive Officer

Date: December 04, 2009

INSIGHT INVESTMENT MANAGEMENT  
LIMITED

By: /S/ CHARLES FARQUHARSON

-----  
Charles Farquharson  
Chief Risk Officer

Date: December 04, 2009

BNY INTERNATIONAL FINANCING  
CORPORATION

By: /S/ FRED RICCIARDI

-----  
Fred Ricciardi  
President

Date: August 30, 2010

THE BANK OF NEW YORK MELLON SA/NV

By: /S/ JEAN-CHRISTOPHE MATHONET

-----  
Jean-Christophe Mathonet  
Managing Director

Date: October 4, 2010

BNY MELLON INVESTMENT MANAGEMENT  
EUROPE HOLDINGS LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: March 14, 2013

BNY MELLON INVESTMENT MANAGEMENT  
(EUROPE) LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: March 14, 2013

BNY MELLON INVESTMENT MANAGEMENT  
(JERSEY) LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: March 14, 2013

BNY CAPITAL MARKETS HOLDINGS, INC.

By: /S/ THOMAS P. GIBBONS

-----  
Thomas P. Gibbons  
Vice Chairman & CFO

Date: January 31, 2014

BNY MELLON INTERNATIONAL ASSET  
MANAGEMENT (HOLDINGS) LIMITED

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: April 5, 2013

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

By: /S/ GREG BRISK

-----  
Greg Brisk  
Director

Date: April 5, 2013

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MELLON CANADA HOLDING COMPANY

BNY INTERNATIONAL FINANCING  
CORPORATION

By: /S/ JOHN REHOB

-----  
John Rehob  
President

Date: August 06, 2013

CUTWATER HOLDINGS LLC

By: /S/ CLIFFORD CORSO

-----  
Clifford Corso  
Chief Executive Officer

Date: March 16, 2015

-----  
| Fund Administrators |  
-----

BNY MELLON SERVICE KAPITALANLAGE-  
GESELLSCHAFT mbH

By: /S/ CAROLINE SPECHT

-----  
Caroline Specht  
Managing Director, Head of  
Business Strategy and Legal

Date: August 24, 2010