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

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**SCHEDULE 13D**

**Under the Securities Exchange Act of 1934  
(Amendment No. 19)**

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**ALLIANCEBERNSTEIN HOLDING L.P.**

(f/k/a Alliance Capital Management Holding L.P.)  
(Name of Issuer)

**Units Representing Assignments of Beneficial Ownership of Limited Partnership Interests**  
(Title of Class of Securities)

**01855A101**  
(CUSIP Number)

**Anders Malmström**  
**Senior Executive Vice President and Chief Financial Officer**  
**AXA Financial, Inc.**  
**1290 Avenue of the Americas**  
**New York, New York 10104**  
**(212) 554-1234**

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

*With a copy to:*

**George Stansfield, General Counsel**  
**AXA, 25, avenue Matignon**  
**75008 Paris, France**  
**011-331-40-75-57-00**

**December 31, 2015**  
(Date of Event which Requires Filing of this Statement)

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If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of ss. 240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

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**NOTE:** Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

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\* 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 disclosures provided in a prior cover page.

The information required on 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).

(Continued on following pages)

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1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  AXA 98-0342809	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  France	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER  See Item 5
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER  See Item 5
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5 (Not to be construed as an admission of beneficial ownership)	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  HC, CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  AXA Assurances I.A.R.D. Mutuelle	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  France	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER  See Item 5
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER  See Item 5
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5 (Not to be construed as an admission of beneficial ownership)	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IC	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  AXA Assurances Vie Mutuelle	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  France	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER  See Item 5
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER  See Item 5
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5 (Not to be construed as an admission of beneficial ownership)	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IC	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  Henri de Castries, as AXA Voting Trustee	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Citizen of the Republic of France	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER  See Item 5
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER  See Item 5
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5 (Not to be construed as an admission of beneficial ownership)	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  Denis Duverne, as AXA Voting Trustee	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Citizen of the Republic of France	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER  See Item 5
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER  See Item 5
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5 (Not to be construed as an admission of beneficial ownership)	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  Mark Pearson, as AXA Voting Trustee	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Citizen of the United Kingdom	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER  See Item 5
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER  See Item 5
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5 (Not to be construed as an admission of beneficial ownership)	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IN	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  AXA America Holdings, Inc. 90-0226248	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  HC, CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  AXA Financial, Inc. 13-3623351	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  HC, CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  AXA Equitable Financial Services, LLC 52-2197822	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  HC, OO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  AXA Equitable Life Insurance Company 13-5570651	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  New York	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IC, CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  ACMC, LLC 13-2677213	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  1,444,356 - See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  1,444,356 - See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,444,356 - See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  1.4% - See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  AXA AMERICA CORPORATE SOLUTIONS, INC. 36-3044045	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IC, CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  COLISEUM REINSURANCE COMPANY 36-2994662	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IC, CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)  MONY Life Insurance Company of America 86-0222062	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Arizona	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Item 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Item 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  IC, CO	

1	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS  AXA-IM HOLDING U.S. INC. 68-0461436	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)  (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS (See Instructions)  OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)  <input type="checkbox"/>	
6	CITIZENSHIP OR PLACE OF ORGANIZATION  Delaware	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  See Items 4 and 5
	8	SHARED VOTING POWER
	9	SOLE DISPOSITIVE POWER  See Items 4 and 5
	10	SHARED DISPOSITIVE POWER
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  See Item 5	
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)  <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  See Item 5	
14	TYPE OF REPORTING PERSON (See Instructions)  HC, CO	

This Amendment No. 19 amends the Statement on Schedule 13D ("Schedule 13D") initially filed on August 4, 1992 with the Securities and Exchange Commission by AXA, Midi Participations, Finaxa, the Mutuelles AXA (as herein defined) and the Trustees of a Voting Trust (established pursuant to the Voting Trust Agreement dated as of May 12, 1992 (the "Original Voting Trust Agreement")), as amended by Amendment No. 1 to the Schedule 13D filed on July 29, 1993 ("Amendment No. 1"), Amendment No. 2 to the Schedule 13D filed on September 14, 1994 ("Amendment No. 2"), Amendment No. 3 to the Schedule 13D filed on October 22, 1996 ("Amendment No. 3"), Amendment No. 4 to the Schedule 13D filed on July 11, 1997 ("Amendment No. 4"), Amendment No. 5 to the Schedule 13D filed on September 4, 1997 ("Amendment No. 5"), Amendment No. 6 to the Schedule 13D filed on April 9, 1999 ("Amendment No. 6"), Amendment No. 7 to the Schedule 13D filed on November 4, 1999 ("Amendment No. 7"), Amendment No. 8 to the Schedule 13D filed on June 23, 2000 ("Amendment No. 8"), Amendment No. 9 to the Schedule 13D filed on November 27, 2002 ("Amendment No. 9"), and Amendment No. 10 to the Schedule 13D filed on March 9, 2004 ("Amendment No. 10"), Amendment No. 11 to the Schedule 13D filed on December 22, 2004 ("Amendment No. 11"), Amendment No. 12 to the Schedule 13D filed on March 7, 2007 ("Amendment No. 12"), Amendment No. 13 to the Schedule 13D filed on December 19, 2008 ("Amendment No. 13"), Amendment No. 14 to the Schedule 13D filed on January 8, 2009 ("Amendment No. 14"), Amendment No. 15 to the Schedule 13D filed on April 1, 2009 ("Amendment No. 15"), Amendment No. 16 to the Schedule 13D filed on December 16, 2011 ("Amendment No. 16"), Amendment No. 17 to the Schedule 13D filed on September 23, 2013 ("Amendment No. 17"), and Amendment No. 18 to the Schedule 13D filed on December 20, 2013 ("Amendment No. 18") each of which was filed by AXA, Midi Participations (through Amendment No. 2), Finaxa (through Amendment No. 11), the Mutuelles AXA, the Trustees, AXA Financial, Inc. (formerly known as The Equitable Companies Incorporated) ("AXF"), AXA Equitable Life Insurance Company (f/k/a The Equitable Life Assurance Society of the United States) ("AXA Equitable"), Equitable Holding Corporation (which was merged in 1997 into Equitable Holdings, LLC) (through Amendment No. 13), Equitable Investment Corporation (which was merged in November 1999 into Equitable Holdings, LLC) (through Amendment No. 13), APMC, LLC and EPMC, LLC (through Amendment No. 13) (successor by merger to Equitable Capital Management Corporation), which Schedule 13D relates to units ("Units") representing assignments of beneficial ownership of limited partnership interests of AllianceBernstein Holding L.P. (formerly known as Alliance Capital Management Holding L.P.), a Delaware limited partnership ("AB Holding").

## ITEM 2. IDENTITY AND BACKGROUND

Item 2 of the Schedule 13D is hereby amended and restated in its entirety as follows.

This statement is being filed by (i) AXA, a company organized under the laws of France, (ii) AXA Assurances I.A.R.D. Mutuelle and AXA Assurances Vie Mutuelle, two mutual insurance companies organized under the laws of France (the "Mutuelles AXA"), (iii) Mark Pearson (President and Chief Executive Officer of AXF and a member of the Executive Committee of AXA), Henri de Castries (Chairman of the Board and Chief Executive Officer of AXA) and Denis Duverne (member of the Board and Deputy Chief Executive Officer of AXA), as Trustees (the "Trustees") of a Voting Trust (the "Voting Trust") established pursuant to the Original Voting Trust Agreement and currently governed by a Second Amended and Restated Voting Trust Agreement dated as of April 29, 2011, by and among AXA and the Trustees (the "Amended Voting Trust Agreement" and, together with the Original Voting Trust Agreement, the "Voting Trust Agreement"), (iv) AXA America Holdings, Inc., a Delaware corporation ("AXA America"), (v) AXF, a Delaware corporation, (vi) AXA Equitable Financial Services, LLC (formerly known as AXA Client Solutions, LLC and AXA Equitable Financial Services, LLC), a Delaware limited liability company whose sole member is AXF ("AXFS"), (vii) AXA Equitable, a New York stock life insurance company, which is wholly owned by AXFS (viii) APMC, LLC, a Delaware

limited liability company (“ACMC”), (ix) AXA America Corporate Solutions, Inc., a Delaware corporation, which is a wholly owned subsidiary of AXA America (“AACS”), (x) Coliseum Reinsurance Company, a Delaware corporation, which is a wholly owned subsidiary of AACS (“Coliseum”), (xi) MONY Life Insurance Company of America, an Arizona stock life insurance company, which is a wholly owned subsidiary of AXFS (“MLOA”), and (xii) AXA-IM Holding U.S. Inc., a Delaware corporation, which is a 96.23% indirectly owned subsidiary of AXA (“AXA-IM Holding”). AXA, the Mutuelles AXA, the Trustees, AXA America, AXF, AXFS, AXA Equitable, ACMC, AACS, Coliseum, MLOA, and AXA-IM Holding are hereinafter collectively referred to as the “Reporting Persons.”

AXA. AXA is a holding company for an international group of insurance and related financial service companies, including each of the Reporting Persons. The address of AXA’s principal business and office is 25, avenue Matignon, 75008 Paris, France. As of December 31, 2014, the Mutuelles AXA, directly beneficially owned 14.03% of AXA’s ordinary shares (representing 23.61% of the voting power). In addition, as of December 31, 2014, 0.02% of the ordinary shares of AXA without the power to vote were owned by certain subsidiaries of AXA.

Finaxa. Finaxa was a holding company, which was majority owned by the Mutuelles AXA. Finaxa was merged into AXA as of December 16, 2005.

The Mutuelles AXA. The Mutuelles AXA are AXA Assurances I.A.R.D. Mutuelle and AXA Assurances Vie Mutuelle. AXA Courtage Assurance Mutuelle was merged into AXA Assurances I.A.R.D Mutuelle as of December 31, 2006. Each of the Mutuelles AXA is a mutual insurance company organized under the laws of France. The address of each of the Mutuelles AXA’s principal place of business and office is 313 Terrasses de l’Arche, 92727 Nanterre Cedex, France.

The Trustees. In order to ensure, for insurance regulatory purposes, that certain indirect minority shareholders of AXA are not able to exercise control over AXF and certain of its insurance subsidiaries, AXA has agreed pursuant to the Voting Trust Agreement to deposit in the Voting Trust the shares of capital stock of AXF having voting powers beneficially owned by AXA and certain of its affiliates. AXA or any such affiliate depositing capital stock in the Voting Trust will remain the beneficial owner of all capital stock deposited by it in the Voting Trust, but during the term of the Voting Trust the Trustees will exercise all voting rights with respect to such capital stock. Additional information relating to the Voting Trust Agreement is set forth in the Schedule 13D filed by AXA with respect to its ownership of the capital stock of AXF.

Information with respect to all of the Trustees is set forth on Exhibit 1 hereto since the Trustees are members of the Board and/or Executive Committee of AXA.

AXA America and Subsidiaries. AXA America is a holding company for a group of insurance and related financial service companies, including (i) AXF and its subsidiaries and (ii) AACS and its wholly owned subsidiary, Coliseum. The address of AXA America’s principal place of business and office is 1290 Avenue of the Americas, New York, New York 10104. The address of each of AACS’ and Coliseum’s principal place of business and office is 17 State Street, New York, New York 10004.

AXF and Subsidiaries. AXF is a holding company. As of December 31, 2015, 100% of the outstanding shares of common stock of AXF were beneficially owned indirectly by AXA. AXF and its subsidiaries (including AXA Equitable and MLOA, each an indirect wholly owned subsidiary) provide diversified financial services to a broad spectrum of financial advisory, insurance and investment management customers. AXFS, whose sole member is AXF, wholly owns (i) AXA Equitable, which in turn wholly owns ACMC, and (ii) MLOA. ACMC, AXFS and AXF are holding companies. The address of the principal place of business and office of AXF, AXFS, AXA Equitable and ACMC is 1290 Avenue of the Americas, New York, New York 10104 and of MLOA is 525 Washington Boulevard, Jersey City, New Jersey 07310.

AXA-IM Rose Inc. AXA-IM Rose Inc. (“AXA-IM Rose”) was merged into AXA-IM Holding as of January 1, 2016.

AXA-IM Holding. AXA-IM Holding is a holding company for a group of asset management companies. The address of AXA-IM Holding’s principal place of business and office is 100 West Putnam Avenue, Greenwich, Connecticut 06830.

The (i) name, (ii) residence or business address, (iii) present principal occupation or employment and the name, principal place of business and address of any corporation or other organization in which such employment is conducted and (iv) citizenship of each of the executive officers and directors of each of the Reporting Persons are set forth on Exhibits 1 through 7 and 17 through 21 hereto. None of the Reporting Persons nor, to the knowledge of any Reporting Person, any natural person named in Exhibits 1 through 7 and 17 through 21 hereto has, during the last five years, been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or was a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of which any such Reporting Person or person was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, Federal or state securities laws or finding any violation with respect to such laws.

#### ITEM 3. SOURCE AND AMOUNT OF FUNDS OR OTHER CONSIDERATION

Item 3 of the Schedule 13D is hereby amended by inserting the following paragraph at the end thereof.

See Item 4.

#### ITEM 4. PURPOSE OF TRANSACTION

Item 4 of the Schedule 13D is hereby amended by inserting the following paragraph at the end thereof.

On December 31, 2015, APMC transferred 10,000,000 AB Capital Units to its sole member, AXA Equitable. Upon receipt of the 10,000,000 AB Capital Units, AXA Equitable immediately transferred these AB Capital Units to its sole shareholder, AXFS. Upon receipt of the 10,000,000 AB Capital Units, AXFS immediately transferred these AB Capital Units to its sole member, AXF.

Additionally, on January 1, 2016, AXA-IM Rose was merged with and into AXA-IM Holding as part of an internal corporate reorganization. As a result of the merger, 41,934,582 AB Capital Units were transferred from AXA-IM Rose to AXA-IM Holding.

The transfers of the AB Capital Units described above are internal transfers within AXA and its affiliates (the “AXA Group”) that do not change the aggregate holdings of Units and/or AB Capital Units by the AXA Group.

Except as set forth in this statement, none of the Reporting Persons has any plans or proposals described in Item 4(a)-(j) of Schedule 13D.

ITEM 5. INTEREST IN SECURITIES OF THE ISSUER

Items 5(a), (b) and (c) are hereby amended and restated in their entirety as set forth below.

(a) & (b) At the close of business on January 1, 2016 and immediately following the transactions described in Item 4 above, AXA America did not beneficially own directly any Units or AB Capital Units; AXF did not beneficially own directly any Units and beneficially owned directly 43,032,758 AB Capital Units representing approximately 15.8% of the AB Capital Units outstanding; AXA Equitable did not beneficially own directly any Units or AB Capital Units; ACMC beneficially owned directly 1,444,356 Units representing approximately 1.4% of the Units outstanding and 74,406,933 AB Capital Units representing approximately 27.3% of the AB Capital Units outstanding; AACS did not beneficially own directly any Units or AB Capital Units; Coliseum did not beneficially own directly any Units and beneficially owned directly 8,160,000 AB Capital Units representing approximately 3.0% of the AB Capital Units outstanding; MLOA did not beneficially own directly any Units and beneficially owned directly 2,587,472 AB Capital Units representing approximately 1.0% of the AB Capital Units outstanding; and AXA-IM Holding did not beneficially own directly any Units and beneficially owned directly 41,934,582 AB Capital Units representing approximately 15.4% of the AB Capital Units outstanding. ACMC, AXF, AACS, Coliseum, MLOA and AXA-IM Holding have the sole power to vote or direct the vote and the sole power to dispose or direct the disposition of each of their respective directly owned Units and AB Capital Units. By reason of its ownership interest in AXF, AXFS, ACMC, AXA Equitable, MLOA and Coliseum, AXA America may be deemed to beneficially own indirectly, and to have voting and dispositive power with respect to the 1,444,356 Units owned directly by ACMC representing approximately 1.4% of the Units outstanding, and the 74,406,933 AB Capital Units owned directly by ACMC, the 43,032,758 AB Capital Units owned directly by AXF, the 8,160,000 AB Capital Units owned directly by Coliseum and the 2,587,472 AB Capital Units owned directly by MLOA, which collectively represent approximately 47.1% of the AB Capital Units outstanding. By reason of its ownership interest in AXFS, ACMC and MLOA, AXF may be deemed to beneficially own indirectly, and to have voting and dispositive power with respect to the 1,444,356 Units owned directly by ACMC representing approximately 1.4% of the Units outstanding, and the 74,406,933 AB Capital Units owned directly by ACMC and the 2,587,472 AB Capital Units owned directly by MLOA, which, together with the 43,032,758 AB Capital Units owned directly by AXF, represent approximately 44.1% of the AB Capital Units outstanding. By reason of its ownership interest in ACMC, AXA Equitable may be deemed to beneficially own indirectly, and to have voting and dispositive power with respect to, the 1,444,356 Units owned directly by ACMC representing approximately 1.4% of the Units outstanding, and the 74,406,933 AB Capital Units owned directly by ACMC representing 27.3% of the AB Capital Units outstanding. By reason of its ownership interest in ACMC, AXA Equitable and MLOA, AXFS may be deemed to beneficially own indirectly, and to have voting and dispositive power with respect to, the 1,444,356 Units owned directly by ACMC representing approximately 1.4% of the Units outstanding, and the 74,406,933 AB Capital Units owned directly by ACMC, and the 2,587,472 AB Capital Units owned directly by MLOA which collectively represent approximately 28.3% of the AB Capital Units outstanding.

(This excludes Units acquired by the Reporting Persons and their affiliates solely for investment purposes on behalf of client discretionary accounts.)

AXA, by reason of its indirect ownership of 100% of the outstanding shares of common stock of AXA-IM Holding, may be deemed to beneficially own all of the Units and AB Capital Units owned directly and indirectly by AXA America and AXA-IM Holding. By reason of the Voting Trust Agreement and their relationship with AXA and the Mutuelles AXA, the Trustees individually may also be deemed to be beneficial owners of such Units and AB Capital Units. In addition, the Mutuelles AXA, as a group, may

be deemed to be beneficial owners of such Units and AB Capital Units. Each of AXA, the Mutuelles AXA and the Trustees expressly declares that the filing of this Schedule 13D shall not be construed as an admission that it is, for purposes of Section 13(d) of the Securities Exchange Act of 1934, as amended, the beneficial owner of such Units or AB Capital Units.

To the knowledge of the Reporting Persons, the following directors and executive officers of the Reporting Persons listed in Exhibits 1 through 7 and 17 through 21 hereto beneficially own the following number of outstanding Units and options or other rights to acquire Units presently or within 60 days:

Henri de Castries	2,000 Units
Denis Duverne	2,000 Units
Peter S. Kraus	4,337,643 Units
Lorie A. Slutsky	68,029 Units (includes 41,826 Units which Ms. Slutsky may acquire within 60 days under AllianceBernstein Option Plans)

To the knowledge of the Reporting Persons, none of the Directors and Executive officers listed in Exhibits 1 through 7 and 17 through 21 own any AB Capital Units.

Other than as described above and in Item 4 above, none of the Reporting Persons beneficially owns any Units or AB Capital Units or options or other rights to acquire Units or AB Capital Units presently or within 60 days and, to the knowledge of the Reporting Persons, none of the natural persons listed in Exhibits 1 through 7 and 17 through 21 hereto beneficially owns any Units or options and other rights to acquire Units within 60 days.

(c) Other than as described in Item 4 above, during the 60 days preceding the filing of this Amendment, no transactions in Units or AB Units were made by the Reporting Persons, or, to the knowledge of the Reporting Persons, any natural person named in Exhibits 1 through 7 and 17 through 21 hereto.

**ITEM 6. CONTRACTS, ARRANGEMENTS, UNDERSTANDINGS OR RELATIONSHIPS WITH RESPECT TO SECURITIES OF THE ISSUER**

See response to Item 4.

**ITEM 7. MATERIAL TO BE FILED AS EXHIBITS**

Exhibit 1	Information with respect to the Executive Officers and Directors of AXA
Exhibit 2	Information with respect to the Executive Officers and Directors of AXA Assurances I.A.R.D. Mutuelle
Exhibit 3	Information with respect to the Executive Officers of AXA Assurances Vie Mutuelle and Members of AXA Assurances Vie Mutuelle's Conseil d'Administration
Exhibit 4	Information with respect to the Executive Officers and Directors of AXA Financial, Inc. (which is the sole member of AXA Equitable Financial Services, LLC)

Exhibit 5	Information with respect to the Executive Officers and Directors of AXA Equitable Financial Services, LLC
Exhibit 6	Information with respect to the Executive Officers and Directors of AXA Equitable Life Insurance Company
Exhibit 7	Information with respect to the Executive Officers and Directors of APMC, LLC
Exhibit 8	Filing Agreement with respect to the Schedule 13D among the Reporting Persons (incorporated by reference to Exhibit 17 to the Schedule 13D filed on August 4, 1992)
Exhibit 9	Second Amended and Restated Voting Trust Agreement, dated as of April 29, 2011 (incorporated by reference to Exhibit 9 filed with Amendment No. 17 to the Schedule 13D filed on September 23, 2013)
Exhibit 10	Power of Attorney for the Voting Trustees, dated October 16, 2014 with respect to Henri de Castries
Exhibit 11	Power of Attorney for the Voting Trustee, Denis Duverne, dated October 16, 2014
Exhibit 12	Power of Attorney for the Voting Trustee, Mark Pearson, dated December 3, 2014
Exhibit 13	Power of Attorney with respect to AXA
Exhibit 14	Power of Attorney with respect to AXA Assurances I.A.R.D. Mutuelle
Exhibit 15	Power of Attorney with respect to AXA Assurances VIE Mutuelle
Exhibit 16	Power of Attorney with respect to AXA America Holdings, Inc.
Exhibit 17	Information with respect to the Executive Officers and Directors of MONY Life Insurance Company of America
Exhibit 18	Information with respect to the Executive Officers and Directors of AXA America Holdings, Inc.
Exhibit 19	Information with respect to the Executive Officers and Directors of AXA America Corporate Solutions, Inc.
Exhibit 20	Information with respect to the Executive Officers and Directors of Coliseum Reinsurance Company
Exhibit 21	Information with respect to the Executive Officers and Directors of AXA-IM Holding U.S. Inc.
Exhibit 22	Power of Attorney with respect to AXA America Corporate Solutions, Inc.
Exhibit 23	Power of Attorney with respect to Coliseum Reinsurance Company
Exhibit 24	Power of Attorney with respect to AXA-IM Holding U.S. Inc.

SIGNATURES

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.

Date: January 5, 2016

AXA

AXA ASSURANCES I.A.R.D. MUTUELLE

AXA ASSURANCES VIE MUTUELLE

HENRI DE CASTRIES, DENIS DUVERNE, AND MARK  
PEARSON AS AXA VOTING TRUSTEES UNDER THE  
VOTING TRUST AGREEMENT

AXA AMERICA CORPORATE SOLUTIONS, INC.

COLISEUM REINSURANCE COMPANY

AXA-IM HOLDING U.S. INC.

By: /s/ Anders Malmström

Name: Anders Malmström

Title: Attorney-in-Fact

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.

Date: January 5, 2016

AXA AMERICA HOLDINGS, INC.

By: /s/ Anders Malmström

Name: Anders Malmström

Title: Senior Executive Vice President

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.

Date: January 5, 2016

AXA FINANCIAL, INC.

By: /s/ Anders Malmström

Name: Anders Malmström

Title: Senior Executive Vice President and  
Chief Financial Officer

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.

Date: January 5, 2016

AXA EQUITABLE FINANCIAL SERVICES, LLC

By: /s/ Anders Malmström

Name: Anders Malmström

Title: Senior Executive Director and  
Chief Financial Officer

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.

Date: January 5, 2016

AXA EQUITABLE LIFE INSURANCE COMPANY

By: /s/ Anders Malmström

Name: Anders Malmström

Title: Senior Executive Director and  
Chief Financial Officer

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.

Date: January 5, 2016

ACMC, LLC

By: /s/ Anders Malmström

Name: Anders Malmström

Title: Chairman, President and Chief Executive Officer

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.

Date: January 5, 2016

MONY LIFE INSURANCE COMPANY OF AMERICA

By /s/ Anders Malmström

Name: Anders Malmström

Title: Senior Executive Vice President and  
Chief Financial Officer

MEMBERS OF THE BOARD AND THE EXECUTIVE OFFICERS  
OF  
**AXA**

The names of the Members of the Board of Directors and the Executive Officers of AXA and their business addresses and principal occupations are set forth below. If no address is given, the Member's business address is that of AXA at 25, avenue Matignon, 75008 Paris, France. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to AXA and each individual is a citizen of the Republic of France.

**MEMBERS OF THE BOARD OF DIRECTORS**

<u>Name, Business Address</u>	<u>Present Principal Occupation</u>
Henri de Castries	Chairman of the Board of Directors and Chief Executive Officer Chairman of the Board, AXA Financial, Inc.
Ramon de Oliveira Investment Audit Practice, LLC 580 Park Avenue New York, NY 10065 USA	Managing Director of Investment Audit Practice, LLC (United States)
Norbert Dentressangle Dentressangle Initiatives (SAS) 30bis, rue Sainte Hélène 69287 Lyon Cedex 02 France	Vice-Chairman of the Board of Directors, Lead Independent Director Chairman of Dentressangle Initiatives (SAS) (France)
Denis Duverne	Deputy Chief Executive Officer, in charge of Finance, Strategy and Operations
Jean-Pierre Clamadieu Solvay Rue de Ransbeek 310 1120 Brussels Belgium	Chairman of the Executive Committee and director of Solvay (Belgium)
Jean-Martin Folz	Director

Name, Business Address

Present Principal Occupation

Paul Hermelin

Chairman & Chief Executive Officer of Capgemini (France)

Capgemini Group

11 rue, de Tilsitt

75017 Paris

France

Mrs. Isabelle Kocher

Director, Deputy Chief Executive Officer & Chief Operating Officer of ENGIE (France)

ENGIE

Tour T1

1, place Samuel de Champlain

Faubourg de l'Arche

92400 Courbevoie

France

Mrs. Suet Fern Lee (1)

Chairman and Senior Director of Stamford Law Corporation (Singapore)

Stamford Law Corporation

10 Collyer Quay #27-00

Ocean Financial Centre

Singapore 049315

Singapore

Stefan Lippe (2)(5)

Co-founder and Chairman of the Board of Directors of Paperless Inc. (Switzerland) and Co-founder and Vice-Chairman of the Board of Directors of Acqpart Holding AG (Switzerland)

Baarerstrasse 8

CH 63000 Zug

Switzerland

Francois Martineau

Attorney at law (France)

Lussan / Societe d'avocats

282, boulevard Saint Germain

75007 Paris

France

Mrs. Deanna Oppenheimer (3)(4)

Founder of CameoWorks (United States)

CameoWorks

1215 Fourth Avenue, Suite 935

Seattle, WA 98161

USA

Name, Business Address

Mrs. Doina Palici-Chehab (2)  
AXA Insurance Singapore Pte. Ltd.  
8 Shelton Way  
#27-01 AXA Tower  
Singapore 068811  
Singapore

Present Principal Occupation

Chief Executive Officer of AXA Insurance Singapore (Singapore)  
Member of the Board of Directors, representing the employee-shareholders

Mrs. Dominique Reiniche

Director

**EXECUTIVE OFFICERS**

Members of the AXA Executive Committee

Name, Business Address

Henri de Castries  
  
Denis Duverne  
  
Thomas Buberl (2)  
AXA Konzern AG  
Colonia-Allee 10-20  
51067 Koln  
Germany

Present Principal Occupation

Chairman of the Board and Chief Executive Officer

Deputy Chief Executive Officer in charge of Finance, Strategy and Operations

Chief Executive Officer of AXA Konzern AG (Germany) and Chief Executive Officer of the global business line for the Health business

Paul Evans (3)  
AXA UK plc  
5 Old Broad Street  
London ECN 1AD  
United Kingdom

Chief Executive Officer of AXA UK and Chairman of the Board of Directors of AXA Corporate Solutions Assurance

Name, Business Address

Present Principal Occupation

Jean-Laurent Granier  
AXA  
9, avenue de Messine  
75008 Paris  
France

Chief Executive Officer of the Mediterranean and Latin America Region business unit,  
Chairman & CEO of AXA Global P&C and in charge of overseeing the worldwide operations  
of AXA Corporate Solutions

Stéphane Guinet  
AXA Global Direct  
48, rue Carnot  
92150 Suresnes  
France

Chief Executive Officer of AXA Global Direct

Gérald Harlin

Group Chief Financial Officer

Frank Koster (8)  
AXA Belgium SA  
Boulevard du Souverain, 25  
1170 Brussels  
Belgium

Chief Executive Officer of AXA Belgium

Peter Kraus (4)  
AllianceBernstein  
1345 Avenue of the Americas  
New York, NY 10105  
USA

Chairman & Chief Executive Officer of AllianceBernstein

Jean-Louis Laurent Josi  
AXA China Region Limited  
66/F One Island East  
18 Westlands Road  
Quarry Bay  
Hong Kong

Chief Executive Officer of AXA Asia

Nicolas Moreau  
AXA France  
313, Terrasses de l'Arche  
Terrasse 1  
92727 Nanterre Cedex  
France

Chairman & Chief Executive Officer of AXA France and in charge of overseeing the worldwide  
operations of AXA Assistance and AXA Global Direct

Mark Pearson (3)  
AXA Financial, Inc.  
1290 Avenue of the Americas  
New York, NY 10104

President & Chief Executive Officer of AXA Financial, Inc.  
Chairman, President & Chief Executive Officer of AXA Equitable Life Insurance Company

Name, Business Address

Present Principal Occupation

Jacques de Peretti  
AXA Life Insurance Japan  
NBF Platinum Tower  
1-17-3 Shiro Kane  
Tokyo 108-8020  
Japan

Chief Executive Officer of AXA Japan

Antimo Perretta (5)(6)  
AXA Winterthur Sitzerland  
General Guisan-Strasse 40  
8401 Winterthur, Switzerland

Chief Executive Officer of AXA Winterthur

Andrea Rossi (6)  
AXA Investment Managers  
Coeur Défense  
100, Esplanade du Général de Gualle  
92932 Paris La Défense, France

Chief Executive Officer of AXA Investment Managers

George Stansfield (4)

AXA Group General Counsel and Head of Group Human Resources

Christian Thimann (2)

Group Head of Strategy, Sustainability and Public Affairs

Jacques de Vacleroy (7)  
AXA Belgium SA  
Boulevard du Souverain, 25  
1170 Brussels, Belgium

Chief Executive Officer for the Northern, Central and Eastern Europe business unit and Global Head of Life & Savings

Mrs. Véronique Weill

Group Chief Operating Officer

- 
- (1) Citizen of Singapore
  - (2) Citizen of Germany
  - (3) Citizen of United Kingdom
  - (4) Citizen of United States of America
  - (5) Citizen of Switzerland
  - (6) Citizen of Italy
  - (7) Citizen of Belgium
  - (8) Citizen of Netherlands

MEMBERS OF THE BOARD AND THE EXECUTIVE OFFICERS  
OF  
AXA ASSURANCES IARD MUTUELLE

The names of the Members of the Board of Directors and of the Executive Officers of AXA Assurances IARD Mutuelle and their business addresses and principal occupations are set forth below. If no address is given, the Member's or Executive Officer's business address is that of AXA Assurances IARD Mutuelle at 313, Terrasses de l'Arche, 92727 Nanterre Cedex, France. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to AXA Assurances IARD Mutuelle and each individual is a citizen of the Republic of France.

<u>Name, Business Address</u>	<u>Present Principal Occupation</u>
* Henri de Castries AXA 25, avenue Matignon 75008 Paris France	Chairman and Chief Executive Officer of AXA Chairman of the Board of Directors of AXA Assurances IARD Mutuelle
* Chantal Delalande de Villele 4, avenue d'Eylau 75116 Paris France	Dentist
* Hélène Destandau AXA 37 rue Juliette Récamier 69006 Lyon France	General Agent and intermediary in banking operations
* Isabelle Azemard 3 Bld Pershing 75017 Paris France	Managing Partner of SARL RTDE Conseil
* Philippe Guérand SIER Constructeur 129, boulevard Pinel 69500 Bron France	Chairman and Chief Executive Officer of Générale d'Investissements and SIER Conseil Chairman of Société Immobilière d'Etudes et de Réalisation SIER

Name, Business Address

Present Principal Occupation

* Octave Manset 75, rue de la Tour 75016 Paris France	Vice-Chairman of the Board of Directors of AXA Assurances IARD Mutuelle
* Mrs. Christiane Marcellier Financière de Courcelles 63 avenue Franklin Roosevelt 75008 Paris France	Managing Partner of JD4C Conseil
* Alain de Marcellus Cap Gemini 11, rue de Tilsit 75017 Paris France	Director of Financial Services of Cap Gemini Group
* François Martineau Lussan / Societe d'avocats 282, boulevard Saint Germain 75007 Paris France	Attorney at law (France)
* Nicolas Moreau	Chairman & Chief Executive Officer of AXA France
* Dorothée Pineau 30, rue des Princes 92100 Boulogne-Billancourt France	Deputy General Manager of the MEDEF
* Olivier Riché 47, rue de Verneuil 75007 Paris France	Member of the Management Board of Foncière de Paris Company
Jad Ariss	Chief Executive Officer—non Director of AXA Assurances IARD Mutuelle
* Director	

**EXECUTIVE OFFICERS AND  
MEMBERS OF THE CONSEIL D'ADMINISTRATION  
OF  
AXA ASSURANCES VIE MUTUELLE**

The names of the Members of the Board of Directors and of the Executive Officers of AXA Assurances Vie Mutuelle and their business addresses and principal occupations are set forth below. If no address is given, the Member's or Executive Officer's business address is that of AXA Assurances Vie Mutuelle at 313, Terrasses de l'Arche, 92727 Nanterre Cedex, France. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to AXA Assurances Vie Mutuelle and each individual is a citizen of the Republic of France.

<u>Name, Business Address</u>	<u>Present Principal Occupation</u>
* Henri de Castries AXA 25, avenue Matignon 75008 Paris France	Chairman and Chief Executive Officer of AXA Chairman of the Board of Directors of AXA Assurances Vie Mutuelle
* Isabelle Azemard 3, Bld Pershing 75017 Paris France	Managing Partner of SARL RTDE Conseil
* Catherine Baron 13 avenue de général de Gaulle Bt 9 résidence de Villebon 91140 Villebon sur Yvette France	Manager of the network of pharmacies and consultant in charge of the policy of health related products
* Jean-Louis Bertrand 9, rue du Castillet BP 60137 66000 Perpignan France	General insurance agent
* Hubert Fabre SCP Rozés, Fabre et Associés 9, rue de Villersexel 75007 Paris France	Notary

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* Octave Manset 75, rue de la Tour 75016 Paris France	Vice-Chairman of the Board of Directors of AXA Assurances Vie Mutuelle
* Alain de Marcellus Cap Gemini 11, rue de Tilsit 75017 Paris France	Director of Financial Services of Cap Gemini Group
* François Martineau Lussan / Societe d'avocats 282, boulevard Saint Germain 75007 Paris France	Attorney at law (France)
* Nicolas Moreau	Chairman & Chief Executive Officer of AXA France
* Christiane Marcellier Financière de Courcelles 64 avenue Franklin Roosevelt 75008 Paris France	Managing Partner of JD4C Conseil
* Jean-Claude Puerto Salavert UCAR 10, rue Louis Pasteur 92100 Boulogne Billancourt France	Chairman and Chief Executive Officer of UCAR
* Olivier Riché 47, rue de Verneuil 75007 Paris France	Member of the Management Board of Foncière de Paris Company
Jad Ariss	Chief Executive Officer—non Director of AXA Assurances Vie Mutuelle
* Director	

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
AXA FINANCIAL, INC.

The names of the Directors and the names and titles of the Executive Officers of AXA Financial, Inc. (“AXF”), which is the sole member of AXA Equitable Financial Services, LLC, and their business addresses and principal occupations are set forth below. If no address is given, the Director’s or Executive Officer’s business address is that of AXF at 1290 Avenue of the Americas, New York, New York 10104. Unless otherwise indicated, each occupation set forth opposite an individual’s name refers to AXF and each individual is a United States citizen.

Name, Business Address	Present Principal Occupation
Priscilla S. Brown	Senior Executive Vice President and Chief Marketing Officer
* Henri de Castries (1) AXA 25, avenue Matignon 75008 Paris France	Chairman of the Board and Chief Executive Officer, AXA Chairman of the Board, AXF
* Ramon de Oliveira (1) 580 Park Avenue New York, NY 10065	Managing Director, Investment Audit Practice, LLC
* Denis Duverne (1) AXA 25, avenue Matignon 75008 Paris France	Member of the Board and Deputy Chief Executive Officer, AXA
* Barbara Fallon-Walsh Dave S. Hattem	Former Head of Institutional Retirement Plan Services, The Vanguard Group, Inc. Senior Executive Vice President and General Counsel Senior Executive Director and General Counsel, AXA Equitable Life Insurance Company
* Daniel G. Kaye	Former partner at Ernst & Young

Name, Business Address

Present Principal Occupation

* Peter S. Kraus AllianceBernstein 1345 Avenue of Americas New York, NY 10105	Chairman of the Board and Chief Executive Officer AllianceBernstein Holding L.P.
Nicholas B. Lane	Senior Executive Vice President and Head of U.S. Life and Retirement Senior Executive Director and Head of U.S. Life and Retirement, AXA Equitable Life Insurance Company
Anders Malmström (3)	Senior Executive Vice President and Chief Financial Officer Senior Executive Director and Chief Financial Officer, AXA Equitable Life Insurance Company
* Kristi A. Matus athenahealth, Inc. 311 Arsenal Street Watertown, MA 02472	Executive Vice President and Chief Financial & Administrative Officer of athenahealth, Inc.
* Mark Pearson (2)	President and Chief Executive Officer Chairman of the Board and Chief Executive Officer, AXA Equitable Life Insurance Company
Salvatore Piazzolla (4)	Senior Executive Vice President Senior Executive Director—Chief Human Resources Officer, AXA Equitable Life Insurance Company
Sharon Ritchey	Senior Executive Vice President and Chief Operating Officer Senior Executive Director and Chief Operating Officer, AXA Equitable Life Insurance Company
* Bertram L. Scott Novant Health 108 Providence Road Charlotte, NC 28207	Senior Vice President of population health
* Lorie A. Slutsky	President and Chief Executive Officer, The New York Community Trust (community foundation)
* Richard C. Vaughan	Former Executive Vice President and Chief Financial Officer, Lincoln Financial Group

\* Director

- (1) Citizen of the Republic of France
- (2) Citizen of the United Kingdom
- (3) Citizen of Switzerland
- (4) Citizen of Italy

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
AXA EQUITABLE FINANCIAL SERVICES, LLC

The names of the Directors and the names and titles of the Executive Officers of AXA Equitable Financial Services, LLC (“AXA Equitable Financial”) and their business addresses and principal occupations are set forth below. If no address is given, the Director’s or Executive Officer’s business address is 1290 Avenue of the Americas, New York, New York 10104. Unless otherwise indicated, each occupation set forth opposite an individual’s name refers to AXA Equitable Financial and each individual is a United States citizen.

Name, Business Address	Present Principal Occupation
Priscilla S. Brown	Senior Executive Director and Chief Marketing Officer Senior Executive Director and Chief Marketing Officer, AXA Equitable Life Insurance Company
* Mark Pearson (1)	Chairman of the Board, President and Chief Executive Officer Chairman of the Board, President and Chief Executive Officer, AXA Equitable Life Insurance Company
* Dave S. Hattem	Senior Executive Director and General Counsel Senior Executive Director and General Counsel, AXA Equitable Life Insurance Company
Nick Lane	Senior Executive Director and Head of U.S. Life and Retirement Senior Executive Director and Head of U.S. Life and Retirement, AXA Equitable Life Insurance Company
* Anders Malmström (2)	Senior Executive Director and Chief Financial Officer Senior Executive Director and Chief Financial Officer, AXA Equitable Life Insurance Company
Salvatore Piazzolla (3)	Senior Executive Director and Chief Human Resources Officer Senior Executive Director and Chief Human Resources Officer, AXA Equitable Life Insurance Company
Sharon Ritchey	Senior Executive Director and Chief Operating Officer Senior Executive Director and Chief Operating Officer, AXA Equitable Life Insurance Company

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- \* Director  
(1) Citizen of the United Kingdom  
(2) Citizen of Switzerland  
(3) Citizen of Italy

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
AXA EQUITABLE LIFE INSURANCE COMPANY

The names of the Directors and the names and titles of the Executive Officers of AXA Equitable Life Insurance Company (“AXA Equitable”), which is the sole member of Equitable Holdings, LLC, and their business addresses and principal occupations are set forth below. If no address is given, the Director’s or Executive Officer’s business address is that of AXA Equitable at 1290 Avenue of the Americas, New York, New York 10104. Unless otherwise indicated, each occupation set forth opposite an individual’s name refers to AXA Equitable and each individual is a United States citizen.

Name, Business Address	Present Principal Occupation
Priscilla S. Brown	Senior Executive Director and Chief Marketing Officer Senior Executive Vice President and Chief Marketing Officer, AXA Financial, Inc.
* Henri de Castries (1) AXA 25, avenue Matignon 75008 Paris France	Chairman of the Board and Chief Executive Officer, AXA Chairman of the Board, AXA Financial, Inc.
* Ramon de Oliveira (1) 580 Park Avenue New York, NY 10065	Managing Director, Investment Audit Practice, LLC
* Denis Duverne (1) AXA 25, avenue Matignon 75008 Paris France	Member of the Board and Deputy Chief Executive Officer, AXA
* Barbara Fallon-Walsh Dave S. Hattem	Former Head of Institutional Retirement Plan Services, The Vanguard Group, Inc. Senior Executive Director and General Counsel Senior Executive Vice President and General Counsel, AXA Financial, Inc.
* Daniel G. Kaye	Former partner at Ernst & Young

Name, Business AddressPresent Principal Occupation

* Peter S. Kraus AllianceBernstein 1345 Avenue of Americas New York, NY 10105	Chairman of the Board and Chief Executive Officer AllianceBernstein Holding L.P.
Nicholas B. Lane	Senior Executive Director and Head of U.S. Life and Retirement Senior Executive Vice President and Head of U.S. Life and Retirement, AXA Financial, Inc.
Anders Malmström (3)	Senior Executive Director and Chief Financial Officer Senior Executive Vice President and Chief Financial Officer, AXA Financial, Inc.
* Kristi A. Matus athenahealth, Inc. 311 Arsenal Street Watertown, MA 02472	Executive Vice President and Chief Financial & Administrative Officer of athenahealth, Inc.
* Mark Pearson (2)	Chairman of the Board, President and Chief Executive Officer President and Chief Executive Officer, AXA Financial, Inc.
Salvatore Piazzolla (4)	Senior Executive Director-Chief Human Resources Officer Senior Executive Vice President, AXA Financial, Inc.
Sharon Ritchey	Senior Executive Director and Chief Operating Officer Senior Executive Vice President and Chief Operating Officer, AXA Financial, Inc.
* Bertram L. Scott Novant Health 108 Providence Road Charlotte, NC 28207	Senior Vice President of population health
* Lorie A. Slutsky	President and Chief Executive Officer, The New York Community Trust (community foundation)
* Richard C. Vaughan	Former Executive Vice President and Chief Financial Officer, Lincoln Financial Group
* Director	
(1) Citizen of the Republic of France	
(2) Citizen of the United Kingdom	
(3) Citizen of Switzerland	
(4) Citizen of Italy	

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
ACMC, LLC

The names of the Directors and the names and titles of the Executive Officers of ACMC, LLC and their business addresses and principal occupations are set forth below. If no address is given, the Director's or Executive Officer's business address is that of ACMC, LLC at 1290 Avenue of the Americas, New York, New York, 10104. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to ACMC, LLC and each individual is a United States citizen.

Name, Business Address

Present Principal Occupation

\* Joshua E. Braverman

Senior Executive Vice President and Chief Financial Officer  
Senior Executive Director, Chief Investment Officer and Treasurer, AXA Equitable Life Insurance Company

\* Anders Malmström (1)

Chairman of the Board, President and Chief Executive Officer  
Senior Executive Director and Chief Financial Officer, AXA Equitable Life Insurance Company

\* Director

(1) Citizen of Switzerland

Power of Attorney.

Henri de Castries, as a Voting Trustee (the "Trustee"), pursuant to the Second Amended and Restated Voting Trust Agreement dated as of April 29, 2011, by and among AXA, a société anonyme organized under the laws of the France, and the Voting Trustees identified therein, hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Trustee and in the name, place and stead of the Trustee, in any and all capacities in which he might or could act as Trustee, to execute for and on behalf of the Trustee, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Trustee hereby grants to such attorneys-in-fact and agents of the Trustee full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purposes as the Trustee might or could and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Trustee or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Trustee, in serving in such capacity at the request of the Trustee, are not assuming any of the Trustee's responsibilities to comply with Section 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Trustee.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 16th day of October, 2014.

By: /s/ Henri de Castries  
Name: Henri de Castries  
Title: Voting Trustee

Power of Attorney.

Denis Duverne, as a Voting Trustee (the "Trustee"), pursuant to the Second Amended and Restated Voting Trust Agreement dated as of April 29, 2011, by and among AXA, a société anonyme organized under the laws of the France, and the Voting Trustees identified therein, hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Trustee and in the name, place and stead of the Trustee, in any and all capacities in which he might or could act as Trustee, to execute for and on behalf of the Trustee, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Trustee hereby grants to such attorneys-in-fact and agents of the Trustee full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purposes as the Trustee might or could and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Trustee or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Trustee, in serving in such capacity at the request of the Trustee, are not assuming any of the Trustee's responsibilities to comply with Section 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Trustee.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 16th day of October, 2014.

By: /s/ Denis Duverne

Name: Denis Duverne

Title: Voting Trustee

Power of Attorney.

Mark Pearson, as a Voting Trustee (the "Trustee"), pursuant to the Second Amended and Restated Voting Trust Agreement dated as of April 29, 2011, by and among AXA, a société anonyme organized under the laws of the France, and the Voting Trustees identified therein, hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Trustee and in the name, place and stead of the Trustee, in any and all capacities in which he might or could act as Trustee, to execute for and on behalf of the Trustee, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Trustee hereby grants to such attorneys-in-fact and agents of the Trustee full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purposes as the Trustee might or could and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Trustee or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Trustee, in serving in such capacity at the request of the Trustee, are not assuming any of the Trustee's responsibilities to comply with Section 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Trustee.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 3rd day of December, 2014.

By: /s/ Mark Pearson  
Name: Mark Pearson  
Title: Voting Trustee

**Power of Attorney**

AXA, a société anonyme organized under the laws of France (the “Corporation”), hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Corporation and in the name, place and stead of the Corporation, in any and all capacities, to execute for and on behalf of the Corporation, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a “Beneficial Ownership Filing”). The Corporation hereby grants to such attorneys-in-fact and agents of the Corporation full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purpose as the Corporation might or could, and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Corporation or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Corporation, in serving in such capacity at the request of the undersigned, are not assuming any of the Corporation’s responsibilities to comply with Sections 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Corporation.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 16th day of October, 2014.

AXA

By: /s/ George Stansfield

Name: George Stansfield

Title: AXA Group General Counsel

**Power of Attorney**

AXA Assurances I.A.R.D. Mutuelle, a mutual insurance company organized under the laws of France (the "Corporation"), hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Corporation and in the name, place and stead of the Corporation, in any and all capacities, to execute for and on behalf of the Corporation, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Corporation hereby grants to such attorneys-in-fact and agents of the Corporation full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purpose as the Corporation might or could, and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Corporation or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Corporation, in serving in such capacity at the request of the undersigned, are not assuming any of the Corporation's responsibilities to comply with Sections 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Corporation.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 16th day of October, 2014.

AXA ASSURANCES I.A.R.D. MUTUELLE

By: /s/ Jacques de Peretti

Name: Jacques de Peretti

Title: Chief Executive Officer

**Power of Attorney**

AXA Assurances Vie Mutuelle, a mutual insurance company organized under the laws of France (the "Corporation"), hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Corporation and in the name, place and stead of the Corporation, in any and all capacities, to execute for and on behalf of the Corporation, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Corporation hereby grants to such attorneys-in-fact and agents of the Corporation full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purpose as the Corporation might or could, and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Corporation or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Corporation, in serving in such capacity at the request of the undersigned, are not assuming any of the Corporation's responsibilities to comply with Sections 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Corporation.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 16th day of October, 2014.

AXA ASSURANCES VIE MUTUELLE

By: /s/ Jacques de Peretti

Name: Jacques de Peretti

Title: Chief executive Officer

**Power of Attorney**

AXA America Holdings, Inc., a Delaware corporation (the "Corporation"), hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Corporation and in the name, place and stead of the Corporation, in any and all capacities, to execute for and on behalf of the Corporation, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Corporation hereby grants to such attorneys-in-fact and agents of the Corporation full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purpose as the Corporation might or could, and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Corporation or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Corporation, in serving in such capacity at the request of the undersigned, are not assuming any of the Corporation's responsibilities to comply with Sections 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Corporation.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 16th day of October, 2014.

AXA AMERICA HOLDINGS, INC.

By: /s/ Denis Duverne

Name: Denis Duverne

Title: Chairman and Chief Executive Officer

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
MONY LIFE INSURANCE COMPANY OF AMERICA

The names of the Directors and the names and titles of the Executive Officers of MONY Life Insurance Company of America (“MLOA”), and their business addresses and principal occupations are set forth below. If no address is given, the Director’s or Executive Officer’s business address is that of MLOA at 1290 Avenue of the Americas, New York, New York 10104. Unless otherwise indicated, each occupation set forth opposite an individual’s name refers to MLOA and each individual is a United States citizen.

<u>Name, Business Address</u>	<u>Present Principal Occupation</u>
Priscilla S. Brown	Senior Executive Vice President and Chief Marketing Officer Senior Executive Vice President and Chief Marketing Officer, AXA Financial, Inc.
* Henri de Castries (1) AXA 25, avenue Matignon 75008 Paris France	Chairman of the Board and Chief Executive Officer, AXA Chairman of the Board, AXA Financial, Inc.
* Ramon de Oliveira (1) 580 Park Avenue New York, NY 10065	Managing Director, Investment Audit Practice, LLC
* Denis Duverne (1) AXA 25, avenue Matignon 75008 Paris France	Member of the Board and Deputy Chief Executive Officer, AXA
* Barbara Fallon-Walsh Dave S. Hattem	Former Head of Institutional Retirement Plan Services, The Vanguard Group, Inc. Senior Executive Vice President and General Counsel Senior Executive Vice President and General Counsel, AXA Financial, Inc.
* Daniel G. Kaye	Former partner Ernst & Young

Name, Business AddressPresent Principal Occupation

* Peter S. Kraus AllianceBernstein 1345 Avenue of Americas New York, NY 10105	Chairman of the Board and Chief Executive Officer AllianceBernstein Holding L.P.
Nicholas B. Lane	Senior Executive Vice President and Head of U.S. Life and Retirement Senior Executive Vice President and Head of U.S. Life and Retirement, AXA Financial, Inc.
Anders Malmström (3)	Senior Executive Vice President and Chief Financial Officer Senior Executive Vice President and Chief Financial Officer, AXA Financial, Inc.
* Kristi A. Matus athenahealth, Inc. 311 Arsenal Street Watertown, MA 02472	Executive Vice President and Chief Financial & Administrative Officer of athenahealth, Inc.
* Mark Pearson (2)	Chairman of the Board, President and Chief Executive Officer President and Chief Executive Officer, AXA Financial, Inc.
Salvatore Piazzolla (4)	Senior Executive Vice President Senior Executive Vice President, AXA Financial, Inc.
Sharon Ritchey	Senior Executive Vice President and Chief Operating Officer Senior Executive Vice President and Chief Operating Officer, AXA Financial, Inc.
* Bertram L. Scott Novant Health 108 Providence Road Charlotte, NC 28207	Senior Vice President of population health
* Lorie A. Slutsky	President and Chief Executive Officer, The New York Community Trust (community foundation)
* Richard C. Vaughan	Former Executive Vice President and Chief Financial Officer, Lincoln Financial Group
* Director	
(1) Citizen of the Republic of France	
(2) Citizen of the United Kingdom	
(3) Citizen of Switzerland	
(4) Citizen of Italy	

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
AXA AMERICA HOLDINGS, INC.

The names of the Directors and the names and titles of the Executive Officers of AXA America Holdings, Inc. ("AXA America") and their business addresses and principal occupations are set forth below. If no address is given, the Director's or Executive Officer's business address is that of AXA America at 1290 Avenue of the Americas, New York, New York 10104. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to AXA America and each individual is a United States citizen.

Name, Business Address	Present Principal Occupation
* Henri de Castris (1) AXA 25, avenue Matignon 75008 Paris, France	Chairman of the Board and Chief Executive Officer, AXA
* Denis Duverne (1) AXA 25, avenue Matignon 75008 Paris, France	Chairman and Chief Executive Officer Member of the Board and Deputy Chief Executive Officer, AXA
* Anders Malmström (2)	Senior Executive Vice President Senior Executive Director and Chief Financial Officer, AXA Equitable Life Insurance Company
* Mark Pearson (3)	President Chairman, President and Chief Executive Officer, AXA Equitable Life Insurance Company
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* Director	
(1) Citizen of the Republic of France	
(2) Citizen of Switzerland	
(3) Citizen of the United Kingdom	

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
**AXA AMERICA CORPORATE SOLUTIONS, INC.**

The names of the Directors and the names and titles of the Executive Officers of AXA America Corporate Solutions, Inc. (“AACS”) and their business addresses and principal occupations are set forth below. If no address is given, the Director’s or Executive Officer’s business address is that of AACS at 125 Broad Street, New York, New York 10004. Unless otherwise indicated, each occupation set forth opposite an individual’s name refers to AACS and each individual is a United States citizen.

<u>Name, Business Address</u>	<u>Present Principal Occupation</u>
* Cedric de Linares (1)	Chairman of the Board
* Tom Taylor (2)	President and Chief Executive Officer
* Robert Wolf	Vice President and Treasurer
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* Director	
(1) Citizen of the Republic of France	
(2) Citizen of the United Kingdom	

**EXECUTIVE OFFICERS AND DIRECTORS  
OF  
COLISEUM REINSURANCE COMPANY**

The names of the Directors and the names and titles of the Executive Officers of Coliseum Reinsurance Company ("Coliseum") and their business addresses and principal occupations are set forth below. If no address is given, the Director's or Executive Officer's business address is that of Coliseum at 125 Broad Street, New York, New York 10004. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to Coliseum and each individual is a United States citizen.

<u>Name, Business Address</u>	<u>Present Principal Occupation</u>
* Cedric de Linares (1)	Chairman of the Board
* Tom Taylor (2)	President and Chief Executive Officer
* Robert Wolf	Vice President, Chief Financial Officer & Treasurer
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* Director	
(1) Citizen of the Republic of France	
(2) Citizen of the United Kingdom	

EXECUTIVE OFFICERS AND DIRECTORS  
OF  
**AXA-IM HOLDING U.S. INC.**

The names of the Directors and the names and titles of the Executive Officers of AXA-IM Holding U.S. Inc. ("AXA-IM Holding") and their business addresses and principal occupations are set forth below. If no address is given, the Director's or Executive Officer's business address is that of AXA-IM Holding at 100 West Putnam Avenue, Greenwich, CT 06830. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to AXA-IM Holding and each individual is a United States citizen.

<u>Name, Business Address</u>	<u>Present Principal Occupation</u>
* Andrea Rossi (1) Coeur Défense 100, Esplanade du Général de Gualle 92932 Paris La Défense France	Chief Executive Officer, AXA Investment Managers
Marcello Arona (1)	Regional CFO, Americas, AXA Investment Managers and Treasurer
* Joseph Pinto (2) Coeur Défense 100, Esplanade du Général de Gualle 92932 Paris La Défense France	Chief Operating Officer, AXA Investment Managers
* Director	
(1) Citizen of Italy	
(2) Citizen of the Republic of France	

**Power of Attorney**

AXA America Corporate Solutions, Inc., a Delaware corporation (the "Corporation"), hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Corporation and in the name, place and stead of the Corporation, in any and all capacities, to execute for and on behalf of the Corporation, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Corporation hereby grants to such attorneys-in-fact and agents of the Corporation full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purpose as the Corporation might or could, and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Corporation or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Corporation, in serving in such capacity at the request of the undersigned, are not assuming any of the Corporation's responsibilities to comply with Sections 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Corporation.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 29th day of October, 2014.

AXA AMERICA CORPORATE SOLUTIONS, INC.

By: /s/ Robert Wolf

Name: Robert Wolf

Title: Vice President and Treasurer

**Power of Attorney**

Coliseum Reinsurance Company, a Delaware corporation (the "Corporation"), hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Corporation and in the name, place and stead of the Corporation, in any and all capacities, to execute for and on behalf of the Corporation, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Corporation hereby grants to such attorneys-in-fact and agents of the Corporation full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purpose as the Corporation might or could, and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Corporation or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Corporation, in serving in such capacity at the request of the undersigned, are not assuming any of the Corporation's responsibilities to comply with Sections 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Corporation.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 29th day of October, 2014.

COLISEUM REINSURANCE COMPANY

By: /s/ Robert Wolf

Name: Robert Wolf

Title: Chief Financial Officer and Treasurer

**Power of Attorney**

AXA-IM Holding U.S. Inc., a Delaware corporation (the "Corporation"), hereby constitutes and appoints each of Anders Malmstrom, Andrea Nitzan, Anthony Bruccoleri, Dave Hattem, Christina Banthin and Ralph Petruzzo, acting singly, as the true and lawful attorney-in-fact and agent, with full power of substitution and resubstitution, for the Corporation and in the name, place and stead of the Corporation, in any and all capacities, to execute for and on behalf of the Corporation, all Schedules 13D, Schedules 13G, Forms 13F, Forms 3, Forms 4 and Forms 5 as required by the Securities Exchange Act of 1934, as amended, and any and all amendments or successor filings thereto, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, the issuer and relevant stock exchanges (individually, each a "Beneficial Ownership Filing"). The Corporation hereby grants to such attorneys-in-fact and agents of the Corporation full power and authority to do and perform each and every act and thing requisite and necessary to be done with respect to executing and filing Beneficial Ownership Filings, as fully to all intents and purpose as the Corporation might or could, and hereby ratifies and confirms all that said attorneys-in-fact and agents of the Corporation or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that the foregoing attorneys-in-fact and agents of the Corporation, in serving in such capacity at the request of the undersigned, are not assuming any of the Corporation's responsibilities to comply with Sections 13(d), 13(f) and 16 of the Securities Exchange Act of 1934.

The powers hereby conferred upon the said attorneys-in-fact and agents shall continue in force until notice of the revocation of this Power of Attorney has been received by the said attorneys-in-fact and agents of the Corporation.

IN WITNESS WHEREOF, the undersigned has hereunto subscribed this Power of Attorney this 16th day of December, 2015.

By: /s/ Andrea Rossi

Name: Andrea Rossi

Title: Board of Director

By: /s/ Joseph Pinto

Name: Joseph Pinto

Title: Board of Director