

ALLIANCEBERNSTEIN HOLDING L.P.  
Form SC 13D/A  
March 06, 2018

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

**SCHEDULE 13D**  
**Under the Securities Exchange Act of 1934**  
**(Amendment No. 23)**

**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:*

**Helen Browne, General Counsel**

**AXA, 25, avenue Matignon**

**75008 Paris, France**

**011-331-40-75-57-00**

**March 6, 2018**

**(Date of Event which Requires Filing of this Statement)**

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.

**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.

\* 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)

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

France

NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER

OWNED BY

EACH

REPORTING See Item 5  
9 SOLE DISPOSITIVE POWER

PERSON

WITH See Item 5  
10 SHARED DISPOSITIVE POWER

See Item 5  
11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,756,520 - 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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

3.9% - See Item 5  
14 TYPE OF REPORTING PERSON (See Instructions)

HC, CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

France

NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY OWNED BY 8 SHARED VOTING POWER

See Item 5

EACH

REPORTING 9 SOLE DISPOSITIVE POWER

See Item 5

PERSON

WITH

10 SHARED DISPOSITIVE POWER

See Item 5

See Item 5

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,756,520 - 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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

3.9% - See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

IC

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

France

NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY OWNED BY 8 SHARED VOTING POWER

See Item 5

EACH

REPORTING 9 SOLE DISPOSITIVE POWER

See Item 5

PERSON

WITH

10 SHARED DISPOSITIVE POWER

See Item 5



See Item 5

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,756,520 - 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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

3.9% - See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

IC

CUSIP No. 01855A101

1 NAMES OF REPORTING PERSONS

I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only)

AXA Equitable Holdings, Inc.

90-0226248

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions)

(a) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware  
NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY 2,312,163 - See Items 4 and 5  
8 SHARED VOTING POWER

OWNED BY

EACH 9 SOLE DISPOSITIVE POWER

REPORTING

PERSON 2,312,163 - See Items 4 and 5  
10 SHARED DISPOSITIVE POWER

WITH

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,756,520 - See Item 5

12 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (See Instructions)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

3.9% - See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

HC, CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware  
NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER

OWNED BY

EACH 9 SOLE DISPOSITIVE POWER

REPORTING

PERSON See Item 5  
10 SHARED DISPOSITIVE POWER

WITH

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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

1.5% - See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

HC, CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware  
NUMBER OF 7 SOLE VOTING POWER  
SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER  
OWNED BY

EACH 9 SOLE DISPOSITIVE POWER  
REPORTING

PERSON See Item 5  
10 SHARED DISPOSITIVE POWER

WITH

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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

1.5% - See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

HC, OO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

New York

NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER

OWNED BY

EACH 9 SOLE DISPOSITIVE POWER

REPORTING

PERSON See Item 5  
10 SHARED DISPOSITIVE POWER



WITH

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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

1.5% - See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

IC, CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware  
NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY 1,444,356 - See Item 5  
8 SHARED VOTING POWER

OWNED BY

EACH 9 SOLE DISPOSITIVE POWER

REPORTING

PERSON 1,444,356 - See Item 5  
10 SHARED DISPOSITIVE POWER

WITH

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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

1.5% - See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware  
NUMBER OF 7 SOLE VOTING POWER  
SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER  
OWNED BY

EACH 9 SOLE DISPOSITIVE POWER  
REPORTING

PERSON See Item 5  
10 SHARED DISPOSITIVE POWER

WITH

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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

IC, CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware  
NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER

OWNED BY

EACH 9 SOLE DISPOSITIVE POWER

REPORTING

PERSON See Item 5  
10 SHARED DISPOSITIVE POWER

WITH

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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

IC, CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Arizona

NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER

OWNED BY

EACH 9 SOLE DISPOSITIVE POWER

REPORTING

PERSON See Item 5  
10 SHARED DISPOSITIVE POWER



WITH

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)

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

See Item 5

14 TYPE OF REPORTING PERSON (See Instructions)

IC, CO

CUSIP No. 01855A101

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) (b)

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)

6 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware  
NUMBER OF 7 SOLE VOTING POWER

SHARES

BENEFICIALLY See Item 5  
8 SHARED VOTING POWER

OWNED BY

EACH 9 SOLE DISPOSITIVE POWER

REPORTING

PERSON See Item 5  
10 SHARED DISPOSITIVE POWER

WITH

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)

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. 23 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 (which was dissolved on June 30, 2017), as amended by Amendment No. 1 to the Schedule 13D filed on July 29, 1993, 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. 4 to the Schedule 13D filed on July 11, 1997, Amendment No. 5 to the Schedule 13D filed on September 4, 1997, Amendment No. 6 to the Schedule 13D filed on April 9, 1999, Amendment No. 7 to the Schedule 13D filed on November 4, 1999, Amendment No. 8 to the Schedule 13D filed on June 23, 2000, Amendment No. 9 to the Schedule 13D filed on November 27, 2002, and Amendment No. 10 to the Schedule 13D filed on March 9, 2004, 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. 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. 15 to the Schedule 13D filed on April 1, 2009, Amendment No. 16 to the Schedule 13D filed on December 16, 2011, Amendment No. 17 to the Schedule 13D filed on September 23, 2013 (Amendment No. 17), Amendment No. 18 to the Schedule 13D filed on December 20, 2013, Amendment No. 19 to the Schedule 13D filed on January 5, 2016, Amendment No. 20 to the Schedule 13D filed on May 1, 2017 (Amendment No. 20), Amendment No. 21 to the Schedule 13D filed on July 3, 2017 and Amendment No. 22 to the Schedule 13D filed on December 13, 2017 each of which was filed by AXA, Midi Participations (through Amendment No. 2), Finaxa (through Amendment No. 11), the Mutuelles AXA, the Trustees (through Amendment No. 20), AXA Financial, Inc. (formerly known as The Equitable Companies Incorporated), AXA Equitable Life Insurance Company (f/k/a The Equitable Life Assurance Society of the United States), 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 ECMC, 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 4. PURPOSE OF TRANSACTION

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

On May 10, 2017, AXA announced its intention to pursue the sale of a minority stake in AXA Equitable Holdings, Inc. ( Equitable Holdings ), the indirect parent of AB Holding, through a proposed initial public offering ( IPO ) in the first half of 2018, subject to market conditions and the SEC review process. On March 5, 2018, AXA announced its intention to exit fully from Equitable Holdings over time with intended sell-downs of shares of common stock of Equitable Holdings subsequent to the proposed IPO, subject to market conditions. As a result of subsequent sell-downs, if and when AXA were to cease to own beneficially more than 50% of the outstanding shares of common stock of Equitable Holdings, AXA would cease to be the direct controlling stockholder of Equitable Holdings and the indirect controlling equity holder of AB Holding.

ITEM 7. MATERIAL TO BE FILED AS EXHIBITS

- Exhibit 1 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 2 Power of Attorney with respect to AXA (incorporated by reference to Exhibit 13 filed with Amendment No. 19 to the Schedule 13D filed on January 5, 2016)
- Exhibit 3 Power of Attorney with respect to AXA Assurances I.A.R.D. Mutuelle (incorporated by reference to Exhibit 14 filed with Amendment No. 19 to the Schedule 13D filed on January 5, 2016)
- Exhibit 4 Power of Attorney with respect to AXA Assurances VIE Mutuelle (incorporated by reference to Exhibit 15 filed with Amendment No. 19 to the Schedule 13D filed on January 5, 2016)
- Exhibit 5 Power of Attorney with respect to AXA Equitable Holdings, Inc. (incorporated by reference to Exhibit 16 filed with Amendment No. 19 to the Schedule 13D filed on January 5, 2016)
- Exhibit 6 Power of Attorney with respect to AXA America Corporate Solutions, Inc. (incorporated by reference to Exhibit 22 filed with Amendment No. 19 to the Schedule 13D filed on January 5, 2016)
- Exhibit 7 Power of Attorney with respect to Coliseum Reinsurance Company (incorporated by reference to Exhibit 23 filed with Amendment No. 19 to the Schedule 13D filed on January 5, 2016)
- Exhibit 8 Power of Attorney with respect to AXA-IM Holding U.S. Inc. (incorporated by reference to Exhibit 24 filed with Amendment No. 19 to the Schedule 13D filed on January 5, 2016)

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: March 6, 2018

AXA

AXA ASSURANCES I.A.R.D. MUTUELLE

AXA ASSURANCES VIE MUTUELLE

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: March 6, 2018

AXA EQUITABLE 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: March 6, 2018

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: March 6, 2018

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: March 6, 2018

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: March 6, 2018

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: March 6, 2018

MONY LIFE INSURANCE COMPANY OF  
AMERICA

By /s/ Anders Malmström

Name: Anders Malmström

Title: Senior Executive Vice President

and Chief Financial Officer