Harvest Capital Credit Corp Form SC 13D/A January 04, 2018

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

SCHEDULE 13D UNDER THE SECURITIES EXCHANGE ACT OF 1934 (Amendment No. 3)

HARVEST CAPITAL CREDIT CORPORATION

(Name of Issuer)

Common Stock

(Title of Class of Securities)

41753F109

(CUSIP Number)

Walter Conroy

Chief Legal Officer

JMP Group LLC

600 Montgomery Street, Suite 1100

San Francisco, California 94111

Telephone No. (415) 835-8900

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

December 27, 2017

(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 that is the subject of this Schedule 13D, and is filing this schedule because of §§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, as amended ("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).

SCHEDULE 13D

CUSIP No. 41753F109

1	NAMES OF REPORTING PERSONS JMP Group LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE
2	INSTRUCTIONS) (a)
3 4	(b) SEC USE ONLY SOURCE OF FUNDS Not applicable CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED
5	PURSUANT TO ITEM 2(d) or 2(e)
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware
NUMBER OF	7 SOLE VOTING POWER 0
SHARES BENEFICIALLY	v
OWNED BY EACH	863,264
REPORTING	9 SOLE DISPOSITIVE POWER 0
PERSON WITH	10 SHARED DISPOSITIVE POWER (1)(2) 863,264
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON (1)(2) 863,264
12	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
13 14 (1)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 13.31% TYPE OF REPORTING PERSON OO

Consists of 857,606 shares of common stock ("Common Shares") of Harvest Capital Credit Corporation (the "Issuer") held directly by JMP Investment Holdings LLC. JMP Investment Holdings LLC is a direct, wholly owned subsidiary of JMP Group LLC. Accordingly, JMP Group LLC may be deemed to share voting and dispositive power over these securities.

Consists of 5,658 Common Shares of the Issuer held directly by JMP Securities LLC pursuant to the Issuer's Dividend Reinvestment Plan. JMP Securities LLC is a wholly owned subsidiary of JMP Holding LLC, which is a (2) wholly owned subsidiary of JMP Group Inc., which is a wholly owned subsidiary of JMP Investment Holdings LLC, which is a wholly owned subsidiary of JMP Group LLC. Accordingly, JMP Group LLC may be deemed to share voting and dispositive power over these securities.

CUSIP No. 41753F109

2	NAMES OF REPORTING PERSONS JMP Investment Holdings LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)
3 4	(a) (b) SEC USE ONLY SOURCE OF FUNDS OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) or 2(e)
6 NUMBER OF	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware SOLE VOTING POWER
SHARES BENEFICIALLY	0
OWNED	8 SHARED VOTING POWER 863,264 (1)(2)
OWNED BY EACH	863,264 (1)(2) 9 SOLE DISPOSITIVE POWER
BY	9 SOLE DISPOSITIVE POWER 0
BY EACH	863,264 (1)(2) 9 SOLE DISPOSITIVE POWER
BY EACH REPORTING	9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 863,264 (1)(2) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 863,264 (1)(2)
BY EACH REPORTING PERSON WITH	9 SOLE DISPOSITIVE POWER 0 SHARED DISPOSITIVE POWER 863,264 (1)(2) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

14 TYPE OF REPORTING PERSON **OO**

- (1) JMP Investment Holdings LLC is the holder of record of the 857,606 Common Shares of the Issuer reported herein.
- JMP Investment Holdings LLC may be deemed to share voting and dispositive power over 5,658 Common Shares of the Issuer held directly by JMP Securities LLC. JMP Securities LLC is a wholly owned subsidiary of JMP
- (2) Holding LLC, which is a wholly owned subsidiary of JMP Group Inc., which is a wholly owned subsidiary of JMP Investment Holdings LLC, which is a wholly owned subsidiary of JMP Group LLC.

CUSIP No. 41753F109

1	NAMES OF REPORTING PERSONS JMP Group Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE
2	INSTRUCTIONS)
2	(a) (b)
3 4	SEC USE ONLY SOURCE OF FUNDS Not
	applicable CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS
5	REQUIRED PURSUANT TO ITEM 2(d) or 2(e)
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware
NUMBER OF	SOLE VOTING POWER 7
SHARES BENEFICIALLY	0
OWNED	SHARED VOTING POWER
OWNED	8 5,658 (1)
BY	X
	5,658 (1) SOLE DISPOSITIVE POWER
BY	5,658 (1) 9 SOLE DISPOSITIVE POWER 0
BY EACH	5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1)
BY EACH REPORTING	5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER
BY EACH REPORTING PERSON WITH	5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

TYPE OF REPORTING PERSON CO

(1) See Item 5.

CUSIP No. 41753F109

1	NAMES OF REPORTING
	PERSONS JMP Holding LLC
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE
	INSTRUCTIONS)
2	instructions)
	(a)
	(b)
3	SEC USE ONLY
4	SOURCE OF FUNDS Not
•	applicable
	CHECK BOX IF DISCLOSURE OF
	LEGAL PROCEEDINGS IS
5	REQUIRED PURSUANT TO ITEM 2(d) or 2(e)
	2(d) 01 2(c)
6	CITIZENSHIP OR PLACE OF
MINADED OF	ORGANIZATION Delaware
NUMBER OF	SOLE VOTING POWER 7
SHARES	0
BENEFICIALLY	7
DENEITCIALL	CHADED VOTING DOWED
DENEITCIALLI	8 SHARED VOTING POWER
OWNED BY	SHARED VOTING POWER
	8 SHARED VOTING POWER 5,658 (1)
OWNED BY EACH	8 SHARED VOTING POWER
OWNED BY	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0
OWNED BY EACH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER
OWNED BY EACH REPORTING	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1)
OWNED BY EACH REPORTING	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1)
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11)
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11)
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS)
OWNED BY EACH REPORTING PERSON WITH 11	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) PERCENT OF CLASS
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) PERCENT OF CLASS REPRESENTED BY AMOUNT IN
OWNED BY EACH REPORTING PERSON WITH 11	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.1%
OWNED BY EACH REPORTING PERSON WITH 11	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) PERCENT OF CLASS REPRESENTED BY AMOUNT IN

(1) See Item 5.

CUSIP No. 41753F109

1	NAMES OF REPORTING PERSONS JMP Securities LLC CHECK THE APPROPRIATE BOX
2	IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)
3 4	(a) (b) SEC USE ONLY SOURCE OF FUNDS OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS
5	REQUIRED PURSUANT TO ITEM 2(d) or 2(e)
6	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware
NUMBER OF	SOLE VOTING POWER 7
SHARES	0
BENEFICIALLY	SHARED VOTING POWER
BENEFICIALLY OWNED BY	8 SHARED VOTING POWER 5,658 (1)
	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER
OWNED BY	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0
OWNED BY EACH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER
OWNED BY EACH REPORTING	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY
OWNED BY EACH REPORTING PERSON WITH	8 SHARED VOTING POWER 5,658 (1) 9 SOLE DISPOSITIVE POWER 0 10 SHARED DISPOSITIVE POWER 5,658 (1) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1) CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

(1) JMP Securities LLC is the holder of record of the 5,658 Common Shares of the Issuer reported herein.

SCHEDULE 13D

JMP Group LLC is eligible to report its beneficial ownership of the securities reported herein on Schedule 13G pursuant to the provisions of Rule 13d-1(d) and is voluntarily reporting on this Schedule 13D.

Item 1. Security and Issuer.

This Schedule 13D relates to the common stock ("Common Shares") of Harvest Capital Credit Corporation (the "Issuer"), a Delaware corporation having its principal executive offices at 767 Third Avenue, 25th Floor, New York, NY 10017.

Item 2. Identity and Background.

- (a) This Schedule 13D is filed by:
- (i) JMP Group LLC, a Delaware limited liability company;
- (ii) JMP Investment Holdings LLC, a Delaware limited liability company;
- (iii) JMP Group Inc., a Delaware corporation;
- (iv) JMP Holding LLC, a Delaware limited liability company; and
- (v) JMP Securities LLC, a Delaware limited liability company.

The foregoing persons are hereinafter sometimes collectively referred to as the "Reporting Persons." All disclosures herein with respect to any Reporting Person are made only by such Reporting Person. Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party. The Reporting Persons expressly disclaim status as a "group" for purposes of this Schedule 13D.

(b) JMP Investment Holdings LLC is a direct, wholly owned subsidiary of JMP Group LLC. JMP Securities LLC is a direct, wholly owned subsidiary of JMP Holding LLC, which is a direct, wholly owned subsidiary of JMP Group Inc., which is a direct, wholly owned subsidiary of JMP Investment Holdings LLC, which is a wholly owned subsidiary of JMP Group LLC. Accordingly, the Reporting Persons are hereby filing a joint Schedule 13D.

- (c) JMP Group LLC is a publicly traded limited liability company, and together with its subsidiaries is a full-service investment banking and asset management firm.
- (d) The address of the principal business and principal office of each of the Reporting Persons is 600 Montgomery Street, Suite 1100, San Francisco, California 94111.
- (e) During the last five years, none of the Reporting Persons nor any other person identified in response to this Item 2 was convicted in a criminal proceeding (excluding traffic violations and similar misdemeanors) or was a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding 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.
- (f) Not applicable.

In accordance with the provisions of General Instruction C to Schedule 13D, information concerning the managing members, executive officers, board of directors and each person controlling the Reporting Persons, as applicable (collectively, the "Covered Persons"), required by Item 2 of Schedule 13D is provided on Schedule I and is incorporated by reference herein. To the Reporting Persons' knowledge, none of the Covered Persons listed on Schedule I as a director or executive officer of such Reporting Person has been, during the last five years, (i) convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors), or (ii) a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding 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.

After the filing of Amendment No. 2 to Schedule 13D through January 2, 2018, JMP Investment Holdings LLC acquired 100,878 Common Shares in various open market transactions for a total price of \$1,091,927.36 using funds available to it.

- 1. On November 29, 2017, JMP Investment Holdings LLC purchased 38,841 Common Shares at an average price of \$10.7457 per share in open market purchases.
- 2. On November 30, 2017, JMP Investment Holdings LLC purchased 9,351 Common Shares at an average price of \$10.7522 per share in open market purchases.
- 3. On December 1, 2017, JMP Investment Holdings LLC purchased 12,254 Common Shares at an average price of \$10.7388 per share in open market purchases.
- 4. On December 4 2017, JMP Investment Holdings LLC purchased 8,803 Common Shares at an average price of \$10.9256 per share in open market purchases.
- 5. On December 5, 2017, JMP Investment Holdings LLC purchased 300 Common Shares at an average price of \$11.00 per share in open market purchases.
- 6. On December 6, 2017, JMP Investment Holdings LLC purchased 100 Common Shares at an average price of \$11.00 per share in open market purchases.
- 7. On December 7, 2017, JMP Investment Holdings LLC purchased 2,100 Common Shares at an average price of \$10.9971 per share in open market purchases.
- $8.\,$ On December 14, 2017, JMP Investment Holdings LLC purchased 580 Common Shares at an average price of \$11.00 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
- 9. On December 15, 2017, JMP Investment Holdings LLC purchased 5,324 Common Shares at an average price of \$10.9312 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
- 10. On December 26, 2017, JMP Investment Holdings LLC purchased 5,675 Common Shares at a price of \$10.9075 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.

- On December 27, 2017, JMP Investment Holdings LLC purchased 5,675 Common Shares at a price of \$10.8989 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
- 12. On December 28, 2017, JMP Investment Holdings LLC purchased 3,400 Common Shares at a price of \$10.967712.05 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
- 13. On December 29, 2017, JMP Investment Holdings LLC purchased 5,675 Common Shares at a price of \$10.9949 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
- 14. On January 2, 2018, JMP Investment Holdings LLC purchased 2,800 Common Shares at a price of \$10.9750 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.

Item 4. Purpose of Transaction.

The Reporting Persons acquired the securities reported herein solely for investment purposes. JMP Securities LLC holds 5,658 Common Shares of the Issuer acquired under the Issuer's Dividend Reinvestment Plan (the "DRIP"). JMP Securities LLC opted out of the DRIP and will receive no additional Common Shares under the DRIP.

The Reporting Persons do not have, as of the date of this Schedule 13D, any other plans or proposals that relate to or would result in any of the actions or events specified in clauses (a) through (j) of Item 4 of Schedule 13D. The Reporting Persons may change their plans or proposals in the future. The Reporting Persons reserve the right to acquire additional securities of the Issuer in the open market, in privately negotiated transactions (which may be with the Issuer or with third parties) or otherwise, to dispose of all or a portion of their holdings of securities of the Issuer or to change their intention with respect to any or all of the matters referred to in this Item 4.

Item 5. Interest in Securities of the Issuer.

(a), (b) See cover page for each Reporting Person. JMP Investment Holdings LLC is a direct, wholly owned subsidiary of JMP Group LLC and JMP Securities LLC is a direct, wholly owned subsidiary of JMP Holding LLC, which is a direct, wholly owned subsidiary of JMP Group Inc., which is a direct, wholly owned subsidiary of JMP Group LLC. As a result of its ownership, directly or indirectly, of JMP Investment Holdings LLC and JMP Securities LLC, JMP Group LLC may be deemed to control JMP Investment Holdings LLC and JMP Securities LLC and may be deemed to share beneficial ownership and voting and dispositive power over the 863,264 Common Shares held by JMP Investment Holdings LLC and JMP Securities LLC, representing approximately 13.31% of the outstanding Common Shares.

As a result of their ownership, directly or indirectly, of JMP Securities LLC, JMP Group Inc., JMP Holding LLC and JMP Investment Holdings LLC may be deemed to share beneficial ownership and voting and dispositive power over the 5,658 Common Shares held by JMP Securities LLC.

All percentages reported herein are calculated based upon 6,487,874 Common Shares outstanding as of November 3, 2017, as reported in the Issuer's Form 10-Q filed with the Securities and Exchange Commission on November 7, 2017.

- (c) The Reporting Persons have engaged in transactions in Common Shares in the past 60 days only as set forth in numbers 1 through 14 in Item 3 above.
- (d) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer.

Joseph A. Jolson, the Chairman and Chief Executive Officer of JMP Group LLC, is the Chairman of the Board of Directors of the Issuer.

JMP Group LLC owns a 51% equity interest in and is the Manager of HCAP Advisors LLC, a Delaware limited liability company ("HCAP Advisors"). HCAP Advisors serves as the Issuer's investment advisor pursuant to the Investment Advisory and Management Agreement between the Issuer and HCAP Advisors, dated April 29, 2013.

Item 7.	Mate	erial to	he Filed	l as Exhibits

Exhibit A: Joint Filing Agreement (filed herewith)

SIGNATURES

After reasonable inquiry and to the best of their knowledge and belief, the undersigned certify that the information set forth in this statement is true, complete and correct.

Date: January 4, 2018

JMP GROUP LLC

/s/ Joseph A. Jolson Joseph A. Jolson, Chief Executive Officer

JMP INVESTMENT HOLDINGS LLC

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer

JMP GROUP INC.

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer

JMP HOLDING LLC

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer

JMP SECURITIES LLC

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer

SCHEI	DULE I
DIREC	CTORS, MANAGERS AND EXECUTIVE OFFICERS
JMP G	SROUP LLC
	otherwise noted, each of these persons is a citizen of the United States and has as his/her business address c/o roup LLC, 600 Montgomery Street, Suite 1100, San Francisco, California, 94111.
Joseph	A. Jolson
Principa	al Occupation: Chairman and Chief Executive Officer
David N	M. DiPietro
Principa	al Occupation: Director
Ravmoi	nd S. Jackson
	al Occupation: Chief Financial Officer
	R. Johnson
Principa	al Occupation: Vice Chairman
Kennetl	h M. Karmin

Thomas Wright

Principal Occupation: Director

Principal Occupation: Director of Equities of JMP Securities
Mark L. Lehmann
Principal Occupation: Director; President of JMP Securities
H. Mark Lunenburg
Principal Occupation: Director
Carter D. Mack
Principal Occupation: Director; President
Jonathan M. Orszag
Principal Occupation: Director
Glenn H. Tongue
Principal Occupation: Director
Walter Conroy
Principal Occupation: Chief Legal Officer and Secretary
JMP INVESTMENT HOLDINGS LLC
JUL INTESTMENT HODDINGS LLC
Unless otherwise noted, each of these persons is a citizen of the United States and has as his/her business address c/o JMP Investment Holdings LLC, 600 Montgomery Street, Suite 1100, San Francisco, California, 94111.

Joseph A. Jolson

Principal Occupation: Chief Executive Officer

Raymond S. Jackson

Principal Occupation: Chief Financial Officer

Walter Conroy
Principal Occupation: Secretary
JMP GROUP INC.
Unless otherwise noted, each of these persons is a citizen of the United States and has as his/her business address c/o JMP Group Inc., 600 Montgomery Street, Suite 1100, San Francisco, California, 94111.
Joseph A. Jolson
Principal Occupation: Chairman and Chief Executive Officer
David M. DiPietro
Principal Occupation: Director
Raymond S. Jackson
Principal Occupation: Chief Financial Officer
Coris D. Laborara
Craig R. Johnson Principal Occupation: Vice Chairman
Frincipal Occupation. Vice Chairman
Kenneth M. Karmin
Principal Occupation: Director
Thomas Wright
Principal Occupation: Director of Equities of JMP Securities

Mark L. Lehmann
Principal Occupation: Director; President of JMP Securities
H. Mark Lunenburg
Principal Occupation: Director
Carter D. Mack
Principal Occupation: Director; President
Jonathan M. Orszag
Principal Occupation: Director
Glenn H. Tongue
Principal Occupation: Director
Walter Conroy
Principal Occupation: Chief Legal Officer and Secretary
JMP HOLDING LLC
Unless otherwise noted, each of these persons is a citizen of the United States and has as his/her business address c/o JMP Holding LLC, 600 Montgomery Street, Suite 1100, San Francisco, California, 94111.
Joseph A. Jolson
Principal Occupation: Chief Executive Officer

Raymond S. Jackson

Principal Occupation: Chief Financial Officer

Walter Conroy
Principal Occupation: Secretary
JMP SECURITIES LLC
Unless otherwise noted, each of these persons is a citizen of the United States and has as his/her business address c/o JMP Securities LLC, 600 Montgomery Street, Suite 1100, San Francisco, California, 94111.
Mark L. Lehmann
Principal Occupation: President
Raymond S. Jackson
Principal Occupation: Chief Financial Officer
Gil Mogavero
Principal Occupation: Chief Compliance Officer
Walter Conroy
Principal Occupation: Chief Legal Officer and Secretary
EVIHDIT A
EXHIBIT A
IOINT FILING AGREEMENT

Each of the undersigned hereby agrees that the Schedule 13D, to which this Agreement is attached as Exhibit A, and all amendments thereto may be filed on behalf of each such person.

Date: January 4, 2018

JMP GROUP LLC

/s/ Joseph A. Jolson Joseph A. Jolson, Chief Executive Officer

JMP INVESTMENT HOLDINGS LLC

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer

JMP GROUP INC.

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer

JMP HOLDING LLC

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer

JMP SECURITIES LLC

/s/ Raymond S. Jackson Raymond S. Jackson, Chief Financial Officer