

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

SCHEDULE 13D
UNDER THE SECURITIES EXCHANGE ACT OF 1934
(Amendment No. 4)

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)

March 21, 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 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	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS Not applicable	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 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 0
	8	SHARED VOTING POWER (1)(2) 927,411
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER (1)(2) 927,411
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON (1)(2) 927,411	
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) 14.49%	
14	TYPE OF REPORTING PERSON OO	

- (1) Consists of 921,753 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.
- (2) 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 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

1	NAMES OF REPORTING PERSONS JMP Investment Holdings LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 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 0
	8	SHARED VOTING POWER 927,411 (1)(2)
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 927,411 (1)(2)
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 927,411 (1)(2)	
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) 14.49%	
14	TYPE OF REPORTING PERSON OO	

(1) JMP Investment Holdings LLC is the holder of record of the 921,753 Common Shares of the Issuer reported herein.

(2) 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 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.	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS Not applicable	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 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 0
	8	SHARED VOTING POWER 5,658 (1)
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 5,658 (1)
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1)	
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) 0.1 %	
14	TYPE OF REPORTING PERSON CO	

(1) See Item 5.

CUSIP No. 41753F109

1	NAMES OF REPORTING PERSONS JMP Holding LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS Not applicable	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 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 0
	8	SHARED VOTING POWER 5,658 (1)
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 5,658 (1)
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1)	
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) 0.1%	
14	TYPE OF REPORTING PERSON OO	

(1) See Item 5.

CUSIP No. 41753F109

1	NAMES OF REPORTING PERSONS JMP Securities LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) <input type="checkbox"/> (b) <input checked="" type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS OO	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 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 0
	8	SHARED VOTING POWER 5,658 (1)
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 5,658 (1)
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,658 (1)	
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) 0.1%	
14	TYPE OF REPORTING PERSON OO	

(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. 3 to Schedule 13D through April 2, 2018, JMP Investment Holdings LLC acquired 64,147 Common Shares in various open market transactions for a total price of \$686,515.49 using funds available to it.

1. On February 9, 2018, JMP Investment Holdings LLC purchased 3,076 Common Shares at an average price of \$11 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 2. On February 12, 2018, JMP Investment Holdings LLC purchased 4,154 Common Shares at an average price of \$10.3292 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 3. On February 13, 2018, JMP Investment Holdings LLC purchased 2,550 Common Shares at an average price of \$10.4767 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 4. On February 14, 2018, JMP Investment Holdings LLC purchased 4,154 Common Shares at an average price of \$10.8045 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 5. On February 15, 2018, JMP Investment Holdings LLC purchased 600 Common Shares at an average price of \$10.969 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 6. On February 16, 2018, JMP Investment Holdings LLC purchased 1,842 Common Shares at an average price of \$11.00 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 7. On February 20, 2018, JMP Investment Holdings LLC purchased 3,190 Common Shares at an average price of \$10.7959 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 8. On February 21, 2018, JMP Investment Holdings LLC purchased 3,693 Common Shares at an average price of \$10.733 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 9. On February 22, 2018, JMP Investment Holdings LLC purchased 2,484 Common Shares at an average price of \$10.6087 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 10. On February 23, 2018, JMP Investment Holdings LLC purchased 3,100 Common Shares at a price of \$10.71 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 11. On February 26, 2018, JMP Investment Holdings LLC purchased 1,050 Common Shares at a price of \$10.9929 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 12. On February 27, 2018, JMP Investment Holdings LLC purchased 575 Common Shares at a price of \$11 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 13. On February 28, 2018, JMP Investment Holdings LLC purchased 1,025 Common Shares at a price of \$10.8737 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 14. On March 1, 2018, JMP Investment Holdings LLC purchased 786 Common Shares at a price of \$10.9209 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 15. On March 2, 2018, JMP Investment Holdings LLC purchased 609 Common Shares at a price of \$10.8116 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 16. On March 5, 2018, JMP Investment Holdings LLC purchased 450 Common Shares at a price of \$10.8767 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 17. On March 6, 2018, JMP Investment Holdings LLC purchased 543 Common Shares at a price of \$10.9336 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 18. On March 7, 2018, JMP Investment Holdings LLC purchased 3,900 Common Shares at a price of \$ 10.919 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 19. On March 8, 2018, JMP Investment Holdings LLC purchased 3,320 Common Shares at a price of \$10.7919 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
 20. On March 9, 2018, JMP Investment Holdings LLC purchased 2,641 Common Shares at a price of \$ 10.9427 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
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21. On March 12, 2018, JMP Investment Holdings LLC purchased 1,257 Common Shares at a price of \$10.8647 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
22. On March 13, 2018, JMP Investment Holdings LLC purchased 1,000 Common Shares at a price of \$10.87 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
23. On March 14, 2018, JMP Investment Holdings LLC purchased 1,000 Common Shares at a price of \$10.91 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
24. On March 15, 2018, JMP Investment Holdings LLC purchased 1,500 Common Shares at a price of \$10.7665 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
25. On March 16, 2018, JMP Investment Holdings LLC purchased 1,500 Common Shares at a price of \$10.77 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
26. On March 19, 2018, JMP Investment Holdings LLC purchased 1,603 Common Shares at a price of \$10.5102 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
27. On March 20, 2018, JMP Investment Holdings LLC purchased 650 Common Shares at a price of \$10.3769 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
28. On March 21, 2018, JMP Investment Holdings LLC purchased 790 Common Shares at a price of \$10.4533 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
29. On March 22, 2018, JMP Investment Holdings LLC purchased 2,240 Common Shares at a price of \$10.5475 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
30. On March 23, 2018, JMP Investment Holdings LLC purchased 544 Common Shares at a price of \$10.6148 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
31. On March 26, 2018, JMP Investment Holdings LLC purchased 1,550 Common Shares at a price of \$10.6731 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
32. On March 27, 2018, JMP Investment Holdings LLC purchased 1,144 Common Shares at a price of \$10.3293 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
33. On March 28, 2018, JMP Investment Holdings LLC purchased 1,927 Common Shares at a price of \$10.28 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
34. On March 29, 2018, JMP Investment Holdings LLC purchased 1,650 Common Shares at a price of \$10.2628 per share in open market purchases pursuant to a Rule 10b5-1 trading plan.
35. On April 2, 2018, JMP Investment Holdings LLC purchased 2,050 Common Shares at a price of \$10.3805 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 Investment Holdings LLC, 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 921,753 Common Shares held by JMP Investment Holdings LLC and JMP Securities LLC, representing approximately 14.49% 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 6,401,175 Common Shares outstanding as of March 29, 2018, as reported in the Issuer's Form 10-K filed with the Securities and Exchange Commission on April 2, 2018.

(c) The Reporting Persons have engaged in transactions in Common Shares in the past 60 days only as set forth in numbers 1 through 35 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 Chief Executive Officer and 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. Material to be Filed 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: April 5, 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

SCHEDULE I

DIRECTORS, MANAGERS AND EXECUTIVE OFFICERS

JMP GROUP 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 Group LLC, 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

Craig R. Johnson
Principal 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 INVESTMENT HOLDINGS 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

Craig R. Johnson
Principal 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

EXHIBIT A
JOINT 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: April 5, 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