PDF SOLUTIONS INC Form SC 13D/A April 19, 2019

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13D

(Rule 13d-101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT

TO § 240.13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO

§ 240.13d-2(a)

(Amendment No. 2)1

PDF SOLUTIONS, INC.

(Name of Issuer)

Common Stock, \$0.00015 par value

(Title of Class of Securities)

693282105

(CUSIP Number)

ERIC SINGER

VIEX CAPITAL ADVISORS, LLC

825 Third Avenue, 33rd Floor

New York, New York 10022

STEVE WOLOSKY, ESQ.

ELIZABETH GONZALEZ-SUSSMAN, ESQ.

OLSHAN FROME WOLOSKY LLP

1325 Avenue of the Americas

New York, New York 10019

(212) 451-2300

(Name, Address and Telephone Number of Person

Authorized to Receive Notices and Communications)

April 17, 2019

(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* § 240.13d-7 for other parties to whom copies are to be sent.

1 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*).

CUSIP NO. 693282105

1	PERSON	REPORTING
2	LP – Ser CHECK TH	IE ATE MEMBER ^(a)
3	SEC USE C	ONLY
4	SOURCE C	OF FUNDS
5	WC CHECK BC DISCLOSU LEGAL PROCEED REQUIREI PURSUAN ITEM 2(d)	IRE OF INGS IS O T TO
6	CITIZENSI ORGANIZ	HIP OR PLACE OF ATION
	DELAW	ARE
NUMBER OF	7	SOLE VOTING POWER
SHARES BENEFICIALLY	7	- 0 -
OWNED BY	8	SHARED VOTING POWER
EACH REPORTING		1,197,974
PERSON WITH	9	SOLE DISPOSITIVE POWER
	10	- 0 - SHARED DISPOSITIVE POWER

NAME OF REPORTING

1,197,974

AGGREGATE AMOUNT 11 BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,197,974 CHECK BOX IF THE AGGREGATE 12 AMOUNT IN ROW (11) EXCLUDES **CERTAIN SHARES** PERCENT OF CLASS 13 REPRESENTED BY AMOUNT IN ROW (11) 3.7% TYPE OF REPORTING 14 **PERSON** PN

^{*} This Series One is part of a series of VIEX Opportunities Fund, LP, a series limited partnership.

1	NAME OF I PERSON	REPORTING
2	VIEX Op LP – Seric CHECK TH APPROPRIA BOX IF A M OF A GROU	E ATE IEMBER ^(a)
3	SEC USE O	NLY
4	SOURCE O	F FUNDS
5	WC CHECK BO DISCLOSUI LEGAL PROCEEDII REQUIRED PURSUANT ITEM 2(d) C	RE OF NGS IS
6	CITIZENSH OF ORGAN	IIP OR PLACE IZATION
	DELAWA	ARE SOLE
NUMBER OF	7	VOTING POWER
SHARES BENEFICIALLY	•	- 0 - SHARED
OWNED BY	8	VOTING
EACH REPORTING		POWER 113,744
PERSON WITH	9	SOLE DISPOSITIVE POWER
	10	- 0 - SHARED DISPOSITIVE POWER

113,744

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
12	113,744 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)	
14	Less than 1% TYPE OF REPORTING PERSON	
	PN	

^{*} This Series Two is part of a series of VIEX Opportunities Fund, LP, a Delaware series limited partnership.

1	PERSON	F REPORTING
2	Opport CHECK T	RIATE A MEMBER ^(a)
3	SEC USE	ONLY
4	SOURCE	OF FUNDS
5	LEGAL PROCEE REQUIR PURSUA ITEM 2(d	SURE OF DINGS IS ED .NT TO I) OR 2(e)
6		SHIP OR PLACE ANIZATION
	DELA	WARE
		SOLE
NUMBER OF	7	VOTING POWER
SHARES		
BENEFICIALLY	•	- 0 -
OWNED BY	8	SHARED VOTING POWER
EACH REPORTING		312,875
PERSON WITH	9	SOLE DISPOSITIVE POWER
	10	- 0 - SHARED DISPOSITIVE

NAME OF REPORTING

POWER

312,875
AGGREGATE AMOUNT
BENEFICIALLY OWNED

BY EACH REPORTING

PERSON

312,875

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW

(11) EXCLUDES CERTAIN SHARES

PERCENT OF CLASS
REPRESENTED BY
AMOUNT IN ROW (11)

Less than 1%

TYPE OF REPORTING

14 PERSON

PN

4

11

1	NAME O	F REPORTING
2	CHECK APPROP	RIATE A MEMBER ^(a)
3	SEC USE	
4	SOURCE	OF FUNDS
5	LEGAL PROCEE REQUIR PURSUA ITEM 2(c	SURE OF DINGS IS ED NT TO d) OR 2(e) SHIP OR PLACE OF
		WARE
NUMBER OF	7	SOLE VOTING POWER
SHARES BENEFICIALLY	7	- 0 -
OWNED BY	8	SHARED VOTING POWER
EACH REPORTING		1,311,718
PERSON WITH	9	SOLE DISPOSITIVE POWER
	10	- 0 - SHARED DISPOSITIVE POWER

1,311,718

	1,311,710
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY
	EACH REPORTING PERSON
12	1,311,718 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)
14	4.0% TYPE OF REPORTING PERSON
	OO

1	NAME OF R	EPORTING
2	VIEX Spec Opportunit CHECK THE APPROPRIA BOX IF A MI OF A GROU	ies GP II, LLC ; TE EMBER ^(a)
3	SEC USE ON	ILY
4	SOURCE OF	FUNDS
5	AF CHECK BOX DISCLOSUR LEGAL PROCEEDIN REQUIRED PURSUANT ITEM 2(d) Of	E OF IGS IS TO
6	CITIZENSHI OF ORGANI	P OR PLACE ZATION
	DELAWA	RE
NUMBER OF	7	SOLE VOTING POWER
SHARES BENEFICIALLY	•	- 0 -
OWNED BY	8	SHARED VOTING POWER
EACH REPORTING		312,875
PERSON WITH	9	SOLE DISPOSITIVE POWER
	10	- 0 - SHARED DISPOSITIVE

POWER

312,875 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

312,875 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

PERCENT OF CLASS
REPRESENTED BY
AMOUNT IN ROW (11)

Less than 1%
TYPE OF REPORTING
PERSON

00

6

11

1	NAME (PERSON	OF REPORTING N
2	CHECK APPROF	PRIATE A MEMBER ^(a)
3	SEC USI	E ONLY
4	SOURCI	E OF FUNDS
5	LEGAL PROCEE REQUIR PURSUA ITEM 2(SURE OF EDINGS IS EED
		WARE
NUMBER OF	7	SOLE VOTING POWER
SHARES BENEFICIALLY	7	- 0 -
OWNED BY	8	SHARED VOTING POWER
EACH REPORTING		1,624,593
PERSON WITH	9	SOLE DISPOSITIVE POWER
	10	- 0 - SHARED DISPOSITIVE POWER

1,624,593

	AGGREGATE AMOUNT
11	BENEFICIALLY OWNED BY
	EACH REPORTING PERSON

1,624,593

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW

(11) EXCLUDES CERTAIN SHARES

PERCENT OF CLASS
REPRESENTED BY
AMOUNT IN ROW (11)

4.98%

14 TYPE OF REPORTING PERSON

ΙA

7

1	NAME C PERSON	OF REPORTING
2	Eric S. CHECK APPROP BOX IF A	THE PRIATE A MEMBER ^(a)
3	SEC USE	
4	SOURCE	E OF FUNDS
5	LEGAL PROCEE REQUIR PURSUA	SURE OF EDINGS IS ED
6		ISHIP OR PLACE OF IZATION
	USA	
NUMBER OF	7	SOLE VOTING POWER
SHARES BENEFICIALLY	7	- 0 -
OWNED BY	8	SHARED VOTING POWER
EACH REPORTING		1,624,593
PERSON WITH	9	SOLE DISPOSITIVE POWER
	10	- 0 - SHARED DISPOSITIVE POWER

1,624,593

	AGGREGATE AMOUNT
11	BENEFICIALLY OWNED BY
	EACH REPORTING PERSON

1,624,593 CHECK BOX IF

THE AGGREGATE

AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES

PERCENT OF CLASS
REPRESENTED BY
AMOUNT IN ROW (11)

4.98%

14 TYPE OF REPORTING PERSON

IN

8

CUSIP NO. 693282105

The following constitutes Amendment No. 2 to the Schedule 13D filed by the undersigned (the "Amendment No. 2"). This Amendment No. 2 amends the Schedule 13D as specifically set forth herein.

Item 3. Source and Amount of Funds or Other Consideration.

Item 3 is hereby amended and restated to read as follows:

The Shares purchased by Series One were purchased with working capital (which may, at any given time, include margin loans made by brokerage firms in the ordinary course of business) in open market purchases, except as otherwise noted, as set forth in Schedule A, which is incorporated by reference herein. The aggregate purchase price of the 1,197,974 Shares beneficially owned by Series One is approximately \$11,503,527, including brokerage commissions.

The Shares purchased by Series Two were purchased with working capital (which may, at any given time, include margin loans made by brokerage firms in the ordinary course of business) in open market purchases, except as otherwise noted, as set forth in Schedule A, which is incorporated by reference herein. The aggregate purchase price of the 113,744 Shares beneficially owned by Series Two is approximately \$909,438, including brokerage commissions.

The Shares purchased by VSO II were purchased with working capital (which may, at any given time, include margin loans made by brokerage firms in the ordinary course of business) in open market purchases, except as otherwise noted, as set forth in Schedule A, which is incorporated by reference herein. The aggregate purchase price of the 312,875 Shares beneficially owned by VSO II is approximately \$2,709,267, including brokerage commissions.

Item 5. Interest in Securities of the Issuer.

Items 5(a)-(c) and (e) are hereby amended and restated to read as follows:

The aggregate percentage of Shares reported owned by each Reporting Person is based upon 32,595,723 Shares outstanding, which is the total number of Shares outstanding as of March 1, 2019 as reported in the Issuer's Annual Report on Form 10-K, filed with the Securities and Exchange Commission on March 8, 2019.

A. Series One

- (a) As of the close of business on April 19, 2019, Series One beneficially owned 1,197,974 Shares. Percentage: Approximately 3.7%
 - 1. Sole power to vote or direct vote: 0
 - (b) 2. Shared power to vote or direct vote: 1,197,974
 - 3. Sole power to dispose or direct the disposition: 0
 - 4. Shared power to dispose or direct the disposition: 1,197,974

(c) The transactions in the Shares by Series One during the past sixty days are set forth in Schedule A and are incorporated herein by reference.

CUSIP NO. 693282105

Series Two В. As of the close of business on April 19, 2019, Series Two beneficially owned 113,744 Shares. (a) Percentage: Less than 1% 1. Sole power to vote or direct vote: 0 2. Shared power to vote or direct vote: 113,744 (b) 3. Sole power to dispose or direct the disposition: 0 4. Shared power to dispose or direct the disposition: 113,744 (c) The transactions in the Shares by Series Two during the past sixty days are set forth in Schedule A and are incorporated herein by reference. **VSOII** C. As of the close of business on April 19, 2019, VSO II beneficially owned 312,875 Shares. (a) Percentage: Less than 1% 1. Sole power to vote or direct vote: 0 2. Shared power to vote or direct vote: 312,875 (b) 3. Sole power to dispose or direct the disposition: 0 4. Shared power to dispose or direct the disposition: 312,875 (c) The transactions in the Shares by VSO II during the past sixty days are set forth in Schedule A and are incorporated herein by reference. D. VIEX GP VIEX GP, as the general partner of each of Series One and Series Two, may be deemed the beneficial owner of the (i) 1,197,974 Shares beneficially owned by Series One and (ii) 113,744 Shares owned by Series Two. Percentage: Approximately 4.0% 1. Sole power to vote or direct vote: 0 2. Shared power to vote or direct vote: 1,311,718 (b) 3. Sole power to dispose or direct the disposition: 0 4. Shared power to dispose or direct the disposition: 1,311,718 VIEX GP has not entered into any transactions in the Shares during the past sixty days. The transactions in the (c) shares on behalf of each of Series One and Series Two during the past sixty days are set forth in Schedule A and are incorporated herein by reference. VSO GP II E.

VSO GP II, as the general partner of VSO II, may be deemed the beneficial owner of the 312,875 Shares (a) beneficially owned by VSO II.

Percentage: Less than 1%

CUSIP NO. 693282105

1. Sole power to vote or direct vote: 0

2. Shared power to vote or direct vote: 312,875

- 3. Sole power to dispose or direct the disposition: 0
- 4. Shared power to dispose or direct the disposition: 312,875

(c) VSO GP II has not entered into any transactions in the during the past sixty days. The transactions in the Shares on behalf of VSO II during the past sixty days are set forth in Schedule A and are incorporated herein by reference.

F. VIEX Capital

VIEX Capital, as the investment manager of each of Series One, Series Two and VSO II, may be deemed the beneficial owner of the (i) 1,197,974 Shares beneficially owned by Series One, (ii) 113,744

beneficially owned by Series Two and (iii) 312,875 Shares beneficially owned by VSO II.

Percentage: Approximately 4.98%

(b)

(b)

1. Sole power to vote or direct vote: 0

2. Shared power to vote or direct vote: 1,624,593

- 3. Sole power to dispose or direct the disposition: 0
- 4. Shared power to dispose or direct the disposition: 1,624,593

VIEX Capital has not entered into any transactions in the Shares during the past sixty days. The transactions in the (c) Shares on behalf of each of Series One, Series Two and VSO II during the past sixty days set forth in Schedule A and are incorporated herein by reference.

G. Eric Singer

Mr. Singer, as the managing member of VIEX GP, VSO GP II and VIEX Capital, may be deemed the beneficial (a) owner of the (i) 1,197,974 Shares beneficially owned by Series One, (ii) 113,744 beneficially owned by Series Two, and (iii) 312,875 Shares beneficially owned by VSO II.

Percentage: Approximately 4.98%

(b)

1. Sole power to vote or direct vote: 0

2. Shared power to vote or direct vote: 1,624,593

- 3. Sole power to dispose or direct the disposition: 0
- 4. Shared power to dispose or direct the disposition: 1,624,593

Mr. Singer has not entered into any transactions in the Shares during the past sixty days. The transactions in the (c) Shares on behalf of each of Series One, Series Two and VSO II during the past sixty days are set forth in Schedule A and are incorporated herein by reference.

(e) The Reporting Persons ceased to be the beneficial owner of 5% or more of the Shares of the Issuer on April 17, 2019.

Each Reporting Person, as a member of a "group" with the other Reporting Persons for the purposes of Section 13(d)(3) of the Securities Exchange Act of 1934, as amended, may be deemed the beneficial owner of the Shares directly owned by the other Reporting Persons. Each Reporting Person disclaims beneficial ownership of such Shares except to the extent of his or its pecuniary interest therein.

CUSIP NO. 693282105

Item 6. <u>Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer</u>. Item 6 is hereby amended to add the following:

VSO II has sold short in the over-the-counter market American-style put options referencing an aggregate of 350,000 Shares, which have an exercise price of \$12.50 and expire on November 15, 2019, as further detailed on Schedule A hereto, which is incorporated by reference herein.

CUSIP NO. 693282105

SIGNATURES

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

Dated: April 19, 2019

VIEX Opportunities Fund, LP – Series One

By: VIEX GP, LLC General Partner

By:/s/ Eric Singer Name: Eric Singer

Title: Managing Member

VIEX Opportunities Fund, LP – Series Two

By: VIEX GP, LLC General Partner

By:/s/ Eric Singer Name: Eric Singer

Title: Managing Member

VIEX Special Opportunities Fund II, LP

VIEX Special By: Opportunities GP II, LLC General Partner

By:/s/ Eric Singer Name: Eric Singer

Title: Managing Member

VIEX GP, LLC

By:/s/ Eric Singer Name:Eric Singer

Title: Managing Member

VIEX Special Opportunities GP II, LLC

By:/s/ Eric Singer

Name: Eric Singer

Title: Managing Member

CUSIP NO. 693282105

VIEX Capital Advisors, LLC

By:/s/ Eric Singer Name:Eric Singer

Title: Managing Member

/s/ Eric Singer Eric Singer

CUSIP NO. 693282105

SCHEDULE A

Transactions in the Shares During the Past Sixty Days

Securities Price Per Date of

Nature of the Transaction

Purchased/(Sold) Share(\$) Purchase / Sale

VIEX opportunities fund, LP - Series one

Sale of Common Stock	(2,109)	12.325302/19/2019
Sale of May 2019 Call Option (\$7.50 Strike Price)	(458)	4.7000 03/06/2019
Sale of May 2019 Call Option (\$5.00 Strike Price)	(721)	6.9452 03/06/2019
Sale of Common Stock	(6,131)	13.510003/06/2019
Purchase of August 2019 Call Options (\$15.00 Strike Price)	2,539	0.4761 03/07/2019
Sale of May 2019 Call Option (\$5.00 Strike Price)	(1,406)	6.7000 03/07/2019
Sale of Common Stock	(9,667)	11.671503/07/2019
Purchase of August 2019 Call Options (\$15.00 Strike Price)	243	0.5855 03/29/2019
Sale of August 2019 Call Option (\$15.00 Strike Price)	(2,782)	0.8000 04/17/2019
Sale of Common Stock	(4,246)	13.510004/17/2019
Sale of Common Stock	(100,099)	13.100004/18/2019

VIEX opportunities fund, LP - Series two

Sale of Common Stock (238) 12.325302/19/2019 Sale of Common Stock (582) 11.800003/06/2019 Sale of Common Stock (918) 11.671503/07/2019 Sale of Common Stock (403) 13.510004/17/2019 Sale of Common Stock (9,505) 13.100004/18/2019

VIEX SPECIAL OPPORTUNITIES FUNd II, LP

Sale of Common Stock (655) 12.3253 02/19/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 1,100 0.5000 02/20/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 1,292 0.5000 02/25/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 2,159 0.5000 03/01/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 103 0.5000 03/04/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 202 0.5000 03/05/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (169) 6.9452 03/06/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (331) 6.7000 03/07/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 598 0.4761 03/07/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$15.00 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price)¹ 57 0.5855 03/29/2019 Sale of Common Stock (655) 0.8000 04/17/2019 Sale of Common Stock	Purchase of August 2019 Put Options (\$10.00 Strike Price) ¹	50	0.5000 02/19/2018
Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 1,292 0.5000 02/25/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 2,159 0.5000 03/01/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 103 0.5000 03/04/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 202 0.5000 03/05/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (169) 6.9452 03/06/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (331) 6.7000 03/07/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 598 0.4761 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price)¹ 57 0.5855 03/29/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/17/2019		(655)	12.325302/19/2019
Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 1,292 0.5000 02/25/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 2,159 0.5000 03/01/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 103 0.5000 03/04/2019 Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 202 0.5000 03/05/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (169) 6.9452 03/06/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (331) 6.7000 03/07/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 598 0.4761 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price)¹ 57 0.5855 03/29/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/17/2019	Purchase of August 2019 Put Options (\$10.00 Strike Price) ¹	1,100	0.5000 02/20/2019
Purchase of August 2019 Put Options (\$10.00 Strike Price) ¹ Purchase of August 2019 Put Options (\$10.00 Strike Price) ¹ Sale of May 2019 Call Option (\$5.00 Strike Price) Sale of Common Stock Sale of May 2019 Call Option (\$5.00 Strike Price) Sale of May 2019 Call Option (\$5.00 Strike Price) Purchase of August 2019 Call Options (\$15.00 Strike Price) Sale of Common Stock Sale of May 2019 Put Options (\$7.50 Strike Price) Purchase of August 2019 Put Options (\$7.50 Strike Price) Sale of August 2019 Call Options (\$15.00 Strike Price) Sale of August 2019 Call Options (\$15.00 Strike Price) Sale of Common Stock	*	1,292	0.5000 02/25/2019
Purchase of August 2019 Put Options (\$10.00 Strike Price)¹ 202 0.5000 03/05/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (169) 6.9452 03/06/2019 Sale of Common Stock (1,602) 11.810003/06/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (331) 6.7000 03/07/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price)¹ 598 0.4761 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of Common Stock (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142)13.100004/18/2019	Purchase of August 2019 Put Options (\$10.00 Strike Price) ¹	2,159	0.5000 03/01/2019
Sale of May 2019 Call Option (\$5.00 Strike Price) (169) 6.9452 03/06/2019 Sale of Common Stock (1,602) 11.810003/06/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (331) 6.7000 03/07/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 598 0.4761 03/07/2019 Sale of Common Stock (2,525) 11.6715 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price) 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price) 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of Common Stock (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/18/2019	Purchase of August 2019 Put Options (\$10.00 Strike Price) ¹	103	0.5000 03/04/2019
Sale of Common Stock (1,602) 11.810003/06/2019 Sale of May 2019 Call Option (\$5.00 Strike Price) (331) 6.7000 03/07/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 598 0.4761 03/07/2019 Sale of Common Stock (2,525) 11.6715 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price) ¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price) ¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/18/2019	Purchase of August 2019 Put Options (\$10.00 Strike Price) ¹	202	0.5000 03/05/2019
Sale of May 2019 Call Option (\$5.00 Strike Price) (331) 6.7000 03/07/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 598 0.4761 03/07/2019 Sale of Common Stock (2,525) 11.6715 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/18/2019	Sale of May 2019 Call Option (\$5.00 Strike Price)	(169)	6.9452 03/06/2019
Purchase of August 2019 Call Options (\$15.00 Strike Price) 598 0.4761 03/07/2019 Sale of Common Stock (2,525) 11.6715 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/18/2019	Sale of Common Stock	(1,602)	11.810003/06/2019
Sale of Common Stock (2,525) 11.6715 03/07/2019 Purchase of May 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/18/2019	Sale of May 2019 Call Option (\$5.00 Strike Price)	(331)	6.7000 03/07/2019
Purchase of May 2019 Put Options (\$7.50 Strike Price)¹ 3,500 0.1000 03/15/2019 Purchase of August 2019 Put Options (\$7.50 Strike Price)¹ 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142)13.100004/18/2019	Purchase of August 2019 Call Options (\$15.00 Strike Price)	598	0.4761 03/07/2019
Purchase of August 2019 Put Options (\$7.50 Strike Price) 1 2,252 0.2000 03/15/2019 Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.5100 04/17/2019 Sale of Common Stock (26,142) 13.1000 04/18/2019	Sale of Common Stock	(2,525)	11.671503/07/2019
Purchase of August 2019 Call Options (\$15.00 Strike Price) 57 0.5855 03/29/2019 Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.5100 04/17/2019 Sale of Common Stock (26,142) 13.1000 04/18/2019	Purchase of May 2019 Put Options (\$7.50 Strike Price) ¹	3,500	0.1000 03/15/2019
Sale of August 2019 Call Options (\$15.00 Strike Price) (655) 0.8000 04/17/2019 Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142) 13.100004/18/2019	Purchase of August 2019 Put Options (\$7.50 Strike Price) ¹	2,252	0.2000 03/15/2019
Sale of Common Stock (1,109) 13.510004/17/2019 Sale of Common Stock (26,142)13.100004/18/2019	Purchase of August 2019 Call Options (\$15.00 Strike Price)	57	0.5855 03/29/2019
Sale of Common Stock (26,142)13.100004/18/2019	Sale of August 2019 Call Options (\$15.00 Strike Price)	(655)	0.8000 04/17/2019
	Sale of Common Stock	(1,109)	13.510004/17/2019
Short Sale of November 2019 Put Options (\$12.50 Strike Price) (3,500) 1.2643 04/18/2019	Sale of Common Stock	(26,142	13.100004/18/2019
	Short Sale of November 2019 Put Options (\$12.50 Strike Price)	(3,500)	1.2643 04/18/2019

¹ Represents a purchase to cover a short position