

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. 3)<sup>1</sup>

Merrimack Pharmaceuticals, Inc.  
(Name of Issuer)

Common Stock, \$0.01 par value per share  
(Title of Class of Securities)

590328209  
(CUSIP Number)

JOSEPH F. LAWLER, M.D., Ph.D.  
JFL CAPITAL MANAGEMENT LLC  
2110 Ranch Road 620 S, #341732  
Lakeway, Texas 78734  
(512) 761-4500

STEVE WOLOSKY  
RYAN NEBEL  
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 15, 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.

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<sup>1</sup> 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*).

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1	NAME OF REPORTING PERSON  JFL Partners Fund LP	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS  WC	
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  489,532
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  489,532
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  489,532	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  3.7%	
14	TYPE OF REPORTING PERSON  PN	

1	NAME OF REPORTING PERSON JFL Capital Management LP	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input 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 TEXAS	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 489,532
	8	SHARED VOTING POWER - 0 -
	9	SOLE DISPOSITIVE POWER 489,532
	10	SHARED DISPOSITIVE POWER - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 489,532	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 3.7%	
14	TYPE OF REPORTING PERSON PN	

1	NAME OF REPORTING PERSON  JFL Capital Holdings LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input 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  489,532
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  489,532
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  489,532	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  3.7%	
14	TYPE OF REPORTING PERSON  OO	

1	NAME OF REPORTING PERSON  JFL Capital Management LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input 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  1,199,540
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  1,199,540
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,199,540	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  9.0%	
14	TYPE OF REPORTING PERSON  OO	

1	NAME OF REPORTING PERSON  Joseph F. Lawler	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input 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  USA	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  1,199,540
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  1,199,540
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,199,540	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  9.0%	
14	TYPE OF REPORTING PERSON  IN	

1	NAME OF REPORTING PERSON  22NW Fund, LP	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS  WC	
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  1,241,896
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  1,241,896
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,241,896	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  9.3%	
14	TYPE OF REPORTING PERSON  PN	

1	NAME OF REPORTING PERSON  22NW, LP	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input 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  1,241,896
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  1,241,896
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,241,896	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  9.3%	
14	TYPE OF REPORTING PERSON  PN	

1	NAME OF REPORTING PERSON  22NW Fund GP, LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input 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  1,241,896
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  1,241,896
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,241,896	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  9.3%	
14	TYPE OF REPORTING PERSON  OO	

1	NAME OF REPORTING PERSON  Aron R. English	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input 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  USA	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  1,241,896
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  1,241,896
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  1,241,896	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  9.3%	
14	TYPE OF REPORTING PERSON  IN	

1	NAME OF REPORTING PERSON  Jason M. Aryeh	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS	
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  USA	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  - 0 -
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  - 0 -
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  - 0 -	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  0%	
14	TYPE OF REPORTING PERSON  IN	

1	NAME OF REPORTING PERSON  Kenneth Lin	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC USE ONLY	
4	SOURCE OF FUNDS  PF	
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  USA	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER  5,000
	8	SHARED VOTING POWER  - 0 -
	9	SOLE DISPOSITIVE POWER  5,000
	10	SHARED DISPOSITIVE POWER  - 0 -
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  5,000	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES <input type="checkbox"/>	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  Less than 1%	
14	TYPE OF REPORTING PERSON  IN	

The following constitutes Amendment No. 3 to the Schedule 13D filed by the undersigned ("Amendment No. 3"). This Amendment No. 3 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 JFL Partners and held in the JFL Account were purchased with working capital (which may, at any given time, include margin loans made by brokerage firms in the ordinary course of business). The aggregate purchase price of the 489,532 Shares beneficially owned by JFL Partners is approximately \$1,990,598, including brokerage commissions. The aggregate purchase price of the 710,008 Shares held in the JFL Account is approximately \$2,904,248, including brokerage commissions.

The Shares purchased by 22NW Fund were purchased with working capital (which may, at any given time, include margin loans made by brokerage firms in the ordinary course of business). The aggregate purchase price of the 1,241,896 Shares beneficially owned by 22NW Fund is approximately \$5,843,160, including brokerage commissions.

The Shares purchased by Dr. Lin were purchased with personal funds (which may, at any given time, include margin loans made by brokerage firms in the ordinary course of business). The aggregate purchase price of the 5,000 Shares directly owned by Dr. Lin is approximately \$20,350, including brokerage commissions.

Item 5. Interest in Securities of the Issuer.

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

(a) The aggregate percentage of Shares reported owned by each person named herein is based upon 13,342,784 Shares outstanding as of February 27, 2019, which is the total number of Shares outstanding as reported in the Issuer's annual report on Form 10-K filed with the Securities and Exchange Commission on March 6, 2019.

As of the close of business on April 17, 2019, JFL Partners directly beneficially owned 489,532 Shares, constituting approximately 3.7% of the Shares outstanding. JFL GP, as the general partner of JFL Partners, may be deemed to beneficially own the 489,532 Shares owned by JFL Partners, constituting approximately 3.7% of the Shares outstanding. JFL Holdings, as the general partner of JFL GP, may be deemed to beneficially own the 489,532 Shares owned by JFL Partners, constituting approximately 3.7% of the Shares outstanding.

As of the close of business on April 17, 2019, 710,008 Shares were held in the JFL Account, constituting approximately 5.3% of the Shares outstanding.

JFL Capital Management, as the investment manager of JFL Partners and the JFL Account, may be deemed to beneficially own the 1,199,540 Shares owned in the aggregate by JFL Partners and held in the JFL Account, constituting approximately 9.0% of the Shares outstanding. Dr. Lawler, as the Managing Member of JFL Capital Management and JFL Holdings, may be deemed to beneficially own the 1,199,540 Shares owned in the aggregate by JFL Partners and held in the JFL Account, constituting approximately 9.0% of the Shares outstanding.

As of the close of business on April 17, 2019, 22NW Fund directly beneficially owned 1,241,896 Shares, constituting approximately 9.3% of the Shares outstanding. 22NW, as the general partner and investment adviser to 22NW Fund, may be deemed to beneficially own the 1,241,896 Shares owned by 22NW Fund, constituting approximately 9.3% of the Shares outstanding. 22NW GP, as the general partner of 22NW, may be deemed to beneficially own the 1,241,896 Shares owned by 22NW Fund, constituting approximately 9.3% of the Shares outstanding. Mr. English, as the Portfolio Manager of 22NW and Managing Member of 22NW GP, may be deemed to beneficially own the 1,241,896 Shares owned by 22NW Fund, constituting approximately 9.3% of the Shares outstanding.

As of the close of business on April 17, 2019, Dr. Lin directly beneficially owned 5,000 Shares, constituting less than 1% of the Shares outstanding.

As of the close of business on April 17, 2019, Mr. Aryeh did not beneficially own any Shares, constituting 0% of the Shares outstanding.

An aggregate of 2,446,436 Shares, constituting approximately 18.3% of the Shares outstanding, are reported in this Amendment No. 3 to the Schedule 13D.

Each Reporting Person may be deemed to be 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, and such group may be deemed to beneficially own the 2,446,436 Shares owned in the aggregate by all of the Reporting Persons. Each Reporting Person disclaims beneficial ownership of the Shares that he or it does not directly own.

(c) Schedule A annexed hereto lists all transactions in securities of the Issuer by the Reporting Persons since the filing of Amendment No. 2 to the Schedule 13D. All of such transactions were effected in the open market.

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 17, 2019

JFL PARTNERS FUND LP

By: JFL Capital Management LP  
General Partner

By: JFL Capital Holdings LLC  
General Partner

By: /s/ Joseph F. Lawler  
Name: Joseph F. Lawler  
Title: Managing Member

JFL CAPITAL MANAGEMENT LP

By: JFL Capital Holdings LLC  
General Partner

By: /s/ Joseph F. Lawler  
Name: Joseph F. Lawler  
Title: Managing Member

JFL CAPITAL HOLDINGS LLC

By: /s/ Joseph F. Lawler  
Name: Joseph F. Lawler  
Title: Managing Member

JFL CAPITAL MANAGEMENT LLC

By: /s/ Joseph F. Lawler  
Name: Joseph F. Lawler  
Title: Managing Member

/s/ Joseph F. Lawler  
JOSEPH F. LAWLER

Individually and as attorney-in-fact for Jason M. Aryeh and Kenneth Lin

22NW FUND, LP

By: 22NW, LP  
General Partner and Investment Adviser

By: 22NW Fund GP, LLC  
General Partner

By: /s/ Aron R. English  
Name: Aron R. English  
Title: Managing Member

22NW, LP

By: 22NW Fund GP, LLC  
General Partner

By: /s/ Aron R. English  
Name: Aron R. English  
Title: Managing Member

22NW FUND GP, LLC

By: /s/ Aron R. English  
Name: Aron R. English  
Title: Managing Member

/s/ Aron R. English  
ARON R. ENGLISH

## SCHEDULE A

**Transactions in Securities of the Issuer Since the Filing of Amendment No. 2 to the Schedule 13D**

<u>Nature of the Transaction</u>	<u>Securities Purchased/(Sold)</u>	<u>Price Per Share(\$)</u>	<u>Date of Purchase/Sale</u>
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**JFL PARTNERS FUND LP**

Purchase of Common Stock <sup>1</sup>	4,506	5.7264	04/08/2019
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**JFL CAPITAL MANAGEMENT LLC****(Through the JFL Account)**

Purchase of Common Stock <sup>2</sup>	26,288	5.9520	04/05/2019
Purchase of Common Stock <sup>1</sup>	6,484	5.7264	04/08/2019

**22NW FUND, LP**

Purchase of Common Stock <sup>3</sup>	50,000	6.1152	04/05/2019
Purchase of Common Stock <sup>4</sup>	32,873	5.8113	04/08/2019
Purchase of Common Stock <sup>5</sup>	30,110	5.7300	04/15/2019
Purchase of Common Stock <sup>6</sup>	20,450	5.9480	04/16/2019
Purchase of Common Stock <sup>7</sup>	16,200	5.9973	04/17/2019

<sup>1</sup> The price reported is a weighted average price. The Shares were purchased in multiple transactions at prices ranging from \$5.7113 to \$5.7462. The Reporting Persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of Shares purchased at each separate price within the range set forth in this footnote.

<sup>2</sup> The price reported is a weighted average price. The Shares were purchased in multiple transactions at prices ranging from \$5.9501 to \$6.0000. The Reporting Persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of Shares purchased at each separate price within the range set forth in this footnote.

<sup>3</sup> The price reported is a weighted average price. The Shares were purchased in multiple transactions at prices ranging from \$6.0000 to \$6.4500. The Reporting Persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of Shares purchased at each separate price within the range set forth in this footnote.

<sup>4</sup> The price reported is a weighted average price. The Shares were purchased in multiple transactions at prices ranging from \$5.7200 to \$5.8500. The Reporting Persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of Shares purchased at each separate price within the range set forth in this footnote.

<sup>5</sup> The price reported is a weighted average price. The Shares were purchased in multiple transactions at prices ranging from \$5.4900 to \$5.9000. The Reporting Persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of Shares purchased at each separate price within the range set forth in this footnote.

<sup>6</sup> The price reported is a weighted average price. The Shares were purchased in multiple transactions at prices ranging from \$5.8000 to \$6.0000. The Reporting Persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of Shares purchased at each separate price within the range set forth in this footnote.

<sup>7</sup> The price reported is a weighted average price. The Shares were purchased in multiple transactions at prices ranging from \$5.9800 to \$6.0000. The Reporting Persons undertake to provide to the Issuer, any security holder of the Issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of Shares purchased at each separate price within the range set forth in this footnote.