(City)

FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

L	OMB APPROVAL  OMB Number: 3235-028										
ſ	OMB Number:	3235-028									
l	Estimated average b	ourden									

Form filed by More than One Reporting

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b)

(State)

(Zip)

obligations Instruction	may continue. See 1(b).	Filed	pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940			hours per respons	se: 0.	5
Name and A	ddress of Reporting Person	*	Issuer Name and Ticker or Trading Symbol     Blueprint Medicines Corp [ BPMC ]		tionship of Ro all applicable Director	,	s) to Issuer 10% Owner	
Last) C/O BLUEP I5 SIDNEY	(First) PRINT MEDICINES CO	(Middle) ORPORATION	3. Date of Earliest Transaction (Month/Day/Year) 03/16/2018	X	Officer (giv below) Chies		Other (specify below) icer	
Street)	CE MA	02130	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line) X		t/Group Filing (Ch by One Reportinç	• •	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned										
1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code ( 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
			Code V Amount (A) or (D) Price		Transaction(s) (Instr. 3 and 4)		(Instr. 4)			
Common Stock	03/16/2018		M <sup>(1)</sup>		1,571	A	\$16.28	7,445	D	
Common Stock	03/16/2018		M <sup>(1)</sup>		2,500	Α	\$36.05	9,945	D	
Common Stock	03/16/2018		<b>S</b> <sup>(2)</sup>		500	D	\$102.19(3)	9,445	D	
Common Stock	03/16/2018		<b>S</b> <sup>(2)</sup>		1,800	D	\$101.32(4)	7,645	D	
Common Stock	03/16/2018		<b>S</b> <sup>(2)</sup>		1,200	D	\$100.02(5)	6,445	D	
Common Stock	03/16/2018		S <sup>(2)</sup>		571	D	\$99.2(6)	5,874	D	

## Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

				•											
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deri Sec Acq (A) ( Disp of (I	erivative courities captived ) or sposed (D) str. 3, 4		ate	e Amount of		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (Right to Buy)	\$16.28	03/16/2018		M <sup>(1)</sup>			1,571	(7)	02/01/2026	Common Stock	1,571	\$0	120,639	D	
Stock Option (Right to	\$36.05	03/16/2018		M <sup>(1)</sup>			2,500	(8)	02/16/2027	Common Stock	2,500	\$0	118,139	D	

## **Explanation of Responses:**

- 1. The exercises reported on this Form 4 was effected pursuant to a trading plan adopted on December 21, 2017 pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended (the "Exchange Act").
- 2. The sales reported on this Form 4 were effected pursuant to a trading plan adopted on December 21, 2017 pursuant to Rule 10b5-1 under the Exchange Act.
- 3. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$101.90 to \$102.84 per share. The Reporting Person undertakes 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 sold at each separate price within the ranges set forth in footnotes (3) through (6) to this Form 4.
- 4. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$100.98 to \$101.80 per share.
- 5. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$99.66 to \$100.54 per share.
- 6. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$98.73 to \$99.50 per share.
- 7. This option was granted on February 1, 2016. This option vested with respect to 25% of the shares underlying the option on January 5, 2017 and as to an additional 1/48th of the shares underlying the option each month thereafter.
- 8. This option was granted on February 16, 2017. This option vested with respect to 1/48th of the shares underlying the option on March 16, 2017 and as to an additional 1/48th of the shares underlying the option each month thereafter.

/s/ Christopher Frankenfield, Attorney-in-Fact

03/20/2018

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.