FORM 4

obligations may continue. See

Instruction 1(b)

Check this box if no longer subject to Section 16. Form 4 or Form 5

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person*     Lydon Nicholas						2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [ BPMC ]									k all app Dired	blicable) ctor	person(s) to Issuer  10% Owner	
(Last) (First) (Middle) C/O BLUEPRINT MEDICINES CORPORATION 45 SIDNEY STREET					02/	3. Date of Earliest Transaction (Month/Day/Year) 02/28/2018									belo		below	,
(Street)						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)  X Form filed by One Reporting Person				
CAMBRIDGE MA 02139														Λ	Form filed by More than One Reporting Person			
(City) (State) (Zip)																		
		Tabl	e I - No	on-Deriv	ative	Sec	uritie	s Ac	quired	l, Dis	sposed o	f, or B	enefic	cially	Owne	ed		
Date				Date				2A. Deemed Execution Date, if any (Month/Day/Year)		ction Instr.	4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			and 5) Securi Benefi Owned		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) o	Price	Reported Transactio (Instr. 3 ar		action(s)		(Instr. 4)
Common Stock 02/28/2						018			S <sup>(1)</sup>		9,596	D	\$89	89.03(2)		93,131	D	
Common Stock 02/28/2						018			S <sup>(1)</sup>		5,264	D	\$88	\$88.2(3)		87,867	D	
Common Stock 02/28/2					2018	018			S <sup>(1)</sup>		5,527	D	\$86	\$86.92(4)		82,340	D	
Common Stock 02/28/2					2018	018			S <sup>(1)</sup>		4,613	D	\$86	\$86.35(5)		77,727	D	
		Та	ble II -								osed of, convertib				wned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deer Execution if any (Month/I		4. Transa Code ( 8)	Instr.	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exerci Expiration Da (Month/Day/You Date Exercisable		te	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of Title Shares		t r		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

## **Explanation of Responses:**

- 1. The sales reported on this Form 4 were effected pursuant to a trading plan adopted on December 19, 2017 pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended.
- 2. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$88.62 to \$89.61 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 (2) through(5) to this Form 4.
- 3. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$87.72 to \$88.60 per share.
- $4. \ The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$86.56 to \$87.55 per share.$
- 5. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$86.16 to \$86.54 per share.

/s/ Christopher Frankenfield, Attorney-in-Fact

03/02/2018

\*\* 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.