FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	wasnington, D.C. 20549	OMB APPROVAL			
Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number: Estimated average bur	3235-0287 den		
obligations may continue. See Instruction 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 response:	0.5		

1. Name and Address of Reporting Person*  McCain Tracey L					2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [ BPMC ]							(Ch	Relationship eck all appli Directo	cable)	g Per	son(s) to Iss 10% Ov Other (s	vner	
	JEPRINT N	MEDICINES CO	(Middle) ORPORATION	02	3. Date of Earliest Transaction (Month/Day/Year) 02/16/2017								helow)			below)	`	
38 SIDNEY STREET, SUITE 200				4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street)	IDGE M	íA (	02139									Line					n	
(City)	(S	tate) (	(Zip)										Person	1				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date			ransaction e nth/Day/Ye	Execution Date,		Code (Instr. 5)			(A) or . 3, 4 and	Benefici	es Formially (D) Following (I) (I		n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership				
			Code			/ Amou	nt	t (A) or Pr		Transac	action(s) . 3 and 4)			(Instr. 4)				
	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	ise (Month/Day/Year) /e	3A. Deemed Execution Date, if any (Month/Day/Year)	Code	Transaction Code (Instr.		nber tive ties red sed	6. Date Exercisable and Expiration Date (Month/Day/Year)		Amou Secui Unde Deriv	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	n Title	0 N 0	Amount or Jumber of Shares						
Stock Option (Right to Buy)	\$36.05	02/16/2017		A		5,000		(1)	02/16/20	Comr Stoo		5,000	\$0	105,000	0	D		

## **Explanation of Responses:**

1. This option vests with respect to 1/48 th of the shares underlying the option on March 16, 2017 and as to an additional 1/48 th of the shares underlying the option each month thereafter.

/s/ Christopher Frankenfield,

02/21/2017

Attorney-in-Fact

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.