Instruction 1(b)

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
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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* McCain Tracey L							2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC]									onship of Reporting all applicable) Director Officer (give title		on(s) to Iss 10% Ov Other (s	vner	
(Last) (First) (Middle) C/O BLUEPRINT MEDICINES CORPORATION 45 SIDNEY STREET						3. Date of Earliest Transaction (Month/Day/Year) 02/27/2018									X Officer (give title Other (specify below) EVP and Chief Legal Officer					
(Street) CAMBRIDGE MA 02139						4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
(City) (State) (Zip)					-										Form filed by More than One Reporting Person					
		Tab	ole I - No	on-Deriv	/ativ	e Se	curit	ties Ac	quired	, Dis	sposed o	f, or Be	nefic	ially	Owned					
Date					ite onth/Day/Year)			med on Date, Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (Disposed Of (D) (Instr. :				Securitie Benefici Owned I	5. Amount of Securities Beneficially Owned Following		: Direct	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	,	Reporte Transac (Instr. 3	eported ansaction(s) nstr. 3 and 4)			(Instr. 4)	
Common	02/27/	02/27/2018						10,000	A	\$2	8.36	6 10,000		D						
Common Stock 02/27						3			S ⁽²⁾		100	D	\$90	0.75	5 9,900		D			
Common Stock 02/27/2									S ⁽²⁾		8,794	D	\$88	8.4 ⁽³⁾ 1,		,106		D		
Common Stock 02/27/2						3			S ⁽²⁾		1,106	D	\$87	\$87.69(4)		0		D		
		-	Table II								osed of, convertil				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/D	n Date,	i. Fransaction Code (Instr.		n of		6. Date E Expiration (Month/I	on Da		7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		ity (I	Price of derivative security enstr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Owne Form: Direct or Ind (I) (Ins	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amou or Numb of Share	oer						
Stock Option (Right to	\$28.36	02/27/2018			M ⁽¹⁾			10,000	(5)		10/03/2026	Common Stock	10,0	00	\$0	134,00	00	D		

Explanation of Responses:

- 1. The exercise reported on this Form 4 was effected pursuant to a trading plan adopted on December 18, 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 18, 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 \$87.90 to \$88.88 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) and (4) to this Form 4.
- 4. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$87.47 to \$87.85 per share.
- 5. This option was granted on October 3, 2016. This option vested with respect to 25% of the shares underlying the option on September 6, 2017 and as to an additional 1/48th of the shares underlying the option each month thereafter

/s/ Christopher Frankenfield Attorney-in-Fact

03/01/2018

** 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.