FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL 3235-0287 OMB Number: Estimated average burden hours per response: 0.5

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

1. Name and Address of Reporting Person* McCain Tracey L						2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC]								(Chec	k all applic Directo	tionship of Reporting all applicable) Director Officer (give title		son(s) to Iss 10% Ov Other (s	ner
(Last) C/O BLU 45 SIDN		3. Date of Earliest Transaction (Month/Day/Year) 12/07/2021								X	below) below) EVP and Chief Legal Officer			'					
(Street) CAMBRIDGE MA 02139						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) $\frac{X}{} \qquad \text{Form filed by One Reporting Person}$					·
(City)			(Zip)		-										Form filed by More than One Reporting Person				
		Tab	le I - No	on-Deriv	/ative	Sec	uriti	ies Ac	quired	l, Di	sposed o	of, or Be	nefic	cially	Owned	l			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Execu y/Year) if any		ned n Date, ay/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			and 5) Securit Benefic Owned		es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
										v	Amount	(A) or (D)	Price	•	Transac	ransaction(s) nstr. 3 and 4)			(Instr. 4)
Common Stock				12/07/	12/07/2021				M ⁽¹⁾		5,000	A	\$2	8.36 38,		441 ⁽²⁾		D	
Common Stock 12				12/07/	/2021				S ⁽¹⁾		4,328	D	\$97	'.46 ⁽³⁾	34	l,113		D	
Common Stock 12/07/2					2021	2021					572	D	\$96	3.38 ⁽⁴⁾	33	3,541		D	
Common	Common Stock 12/07/2				2021	021			S ⁽¹⁾		100	D	\$9	\$95.54		33,441		D	
		Т	able II								osed of converti				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deen Executio if any (Month/D	on Date,	4. Transa Code (8)		n of		6. Date E Expiration (Month/E	on Dat		7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		D Si (li		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	y Dire or li (I) (I	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisa		Expiration Date	Title	Amo or Num of Shar	ber					
Stock Option (Right to	\$28.36	12/07/2021			M ⁽¹⁾			5,000	(5)		10/03/2026	Common Stock	5,0	00	\$0	55,000		D	

Explanation of Responses:

- 1. Effected pursuant to a trading plan adopted on February 22, 2021 pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended.
- 2. Includes 167 shares that were previously acquired under the Issuer's employee stock purchase plan.
- 3. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$96.97 to \$97.91 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
- 4. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$95.87 to \$96.73 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 herein.
- 5. This option was granted on October 3, 2016 and fully vested as of the date hereof.

/s/ Ariel Hurley, Attorney-in-

12/09/2021

Fact

** 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.