

OMB APPROVAL	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* <u>Hewes L. Becker</u>			2. Issuer Name and Ticker or Trading Symbol <u>Blueprint Medicines Corp [BPMC]</u>			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director _____ 10% Owner _____ Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) _____ CHIEF MEDICAL OFFICER		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <u>05/31/2024</u>			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person		
C/O BLUEPRINT MEDICINES CORPORATION 45 SIDNEY STREET			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street)	CAMBRIDGE MA 02139		Rule 10b5-1(c) Transaction Indication					
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.					

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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/31/2024		M ⁽¹⁾		10,573	A	\$66.24	56,854	D	
Common Stock	05/31/2024		M ⁽¹⁾		8,385	A	\$61.31	65,239	D	
Common Stock	05/31/2024		M ⁽¹⁾		5,729	A	\$43.15	70,968	D	
Common Stock	05/31/2024		S ⁽¹⁾		3,671	D	\$107.86 ⁽²⁾	67,297	D	
Common Stock	05/31/2024		S ⁽¹⁾		3,191	D	\$106.5 ⁽³⁾	64,106	D	
Common Stock	05/31/2024		S ⁽¹⁾		20,904	D	\$105.81 ⁽⁴⁾	43,202	D	
Common Stock	05/31/2024		S ⁽¹⁾		6,342	D	\$104.83 ⁽⁵⁾	36,860	D	
Common Stock	06/03/2024		S ⁽¹⁾		2,971	D	\$106.43	33,889	D	
Common Stock	06/03/2024		S ⁽⁶⁾		1,951	D	\$106.43	31,938	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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	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
Stock Options (Right to Buy)	\$66.24	05/31/2024		M ⁽¹⁾			10,573	(7)	06/01/2030	Common Stock	10,573	\$0	13,490	D	
Stock Options (Right to Buy)	\$61.31	05/31/2024		M ⁽¹⁾			8,385	(8)	03/01/2032	Common Stock	8,385	\$0	9,115	D	
Stock Options (Right to Buy)	\$43.15	05/31/2024		M ⁽¹⁾			5,729	(9)	03/01/2033	Common Stock	5,729	\$0	19,271	D	

Explanation of Responses:

- Effected pursuant to a trading plan adopted on March 1, 2024 pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$107.50 to \$108.31 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 range set forth in footnotes (2) through (5) in this form 4.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$106.24 to \$107.20 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$105.22 to \$106.20 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$104.43 to \$105.20 per share.
- The sale reported on this Form 4 represents shares required to be sold by the Reporting Person to cover tax withholding obligations in connection with the vesting of restricted stock units. The sale occurred automatically to satisfy the tax withholding obligations to be funded by a "sell to cover" transaction and does not represent a discretionary trade by the Reporting Person.
- This option was granted on June 1, 2020. This option vested with respect to 25% of the shares underlying the option on June 1, 2021 and as to an additional 1/48th of the shares underlying the option each month thereafter.
- This option was granted on March 1, 2022. This option vested with respect to 1/48th of the shares underlying the option on April 1, 2022 and as to an additional 1/48th of the shares underlying the option each month thereafter.

9. This option was granted on March 1, 2023. This option vested with respect to 1/48th of the shares underlying the option on April 1, 2023 and as to an additional 1/48th of the shares underlying the option each month thereafter.

/s/ Melissa Masse

06/04/2024

** 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.