

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>Landsittel Michael</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) _____ <b>CHIEF FINANCIAL OFFICER</b>		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <u>03/15/2024</u>					
<u>C/O BLUEPRINT MEDICINES CORPORATION</u>			4. If Amendment, Date of Original Filed (Month/Day/Year)			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
<u>45 SIDNEY STREET</u>			Rule 10b5-1(c) Transaction Indication					
(Street)			<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.					
<u>CAMBRIDGE MA 02139</u>								
(City)	(State)	(Zip)						

**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	03/15/2024		M <sup>(1)</sup>		5,000	A	\$36.05	61,020	D	
Common Stock	03/15/2024		S <sup>(1)</sup>		2,675	D	\$87.1 <sup>(2)</sup>	58,345	D	
Common Stock	03/15/2024		S <sup>(1)</sup>		1,413	D	\$88.27 <sup>(3)</sup>	56,932	D	
Common Stock	03/15/2024		S <sup>(1)</sup>		912	D	\$88.88 <sup>(4)</sup>	56,020	D	
Common Stock	03/15/2024		S <sup>(1)</sup>		4,629	D	\$87.09 <sup>(5)</sup>	51,391	D	
Common Stock	03/15/2024		S <sup>(1)</sup>		1,638	D	\$88.08 <sup>(6)</sup>	49,753	D	
Common Stock	03/15/2024		S <sup>(1)</sup>		2,467	D	\$88.94 <sup>(7)</sup>	47,286	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						Amount or Number of Shares
Stock Option (Right to Buy)	\$36.05	03/15/2024		M <sup>(1)</sup>			5,000	(8)	02/16/2027	Common Stock	5,000	\$0	15,000	D	

**Explanation of Responses:**

- Effected pursuant to a trading plan adopted on December 6, 2023 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 \$86.65 to \$87.63 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 (7).
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$87.75 to \$88.71 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$88.79 to \$89.26 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$86.58 to \$87.42 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$87.75 to \$88.72 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$88.81 to \$89.27 per share.
- This option was granted on February 16, 2017 and is fully vested as of the transaction date.

/s/ Melissa Masse, Attorney-in-Fact 03/19/2024

\*\* 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.

## LIMITED POWER OF ATTORNEY

The undersigned hereby constitutes and appoints each of Tracey McCain, Melissa Masse, Ariel Hurley and Michael Landsittel, and each of them individually, and with full power of substitution, the undersigned's true and lawful attorney-in-fact to:

(1) Complete and execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or ten percent (10%) shareholder of Blueprint Medicines Corporation, a Delaware corporation (the "Company") any and all instruments, certificates and documents required to be executed on behalf of the undersigned as an individual or on behalf of the undersigned's company or partnership, as the case may be, pursuant to Section 13 and Section 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or the rules and regulations thereunder;

(2) Do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such instruments, certificates or documents required to be filed pursuant to Sections 13 and 16 of the Exchange Act or the rules or regulations thereunder and timely file such forms with the United States Securities and Exchange Commission and any stock exchange or similar authority; and

(3) Take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by any such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact, acting singly, full power and authority to do and perform any and every act which is necessary, proper or desirable to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that any such attorney-in-fact, or any such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted.

The undersigned acknowledges that each of the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 13 or Section 16 of the Exchange Act or the rules or regulations thereunder. The undersigned hereby agrees to indemnify each attorney-in-fact and the Company from and against any demand, damage, loss, cost or expense arising from any false or misleading information provided by the undersigned to such attorney-in fact.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file any instruments, certificates and documents pursuant to Section 13 and 16 of the Exchange Act or the rules or regulations thereunder with respect to the undersigned's

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