

OMB APPROVAL	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

1. Name and Address of Reporting Person* <u>Albers Jeffrey W.</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) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <b>CEO AND PRESIDENT</b>		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <u>03/03/2022</u>			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		
C/O BLUEPRINT MEDICINES CORPORATION 45 SIDNEY STREET			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street) <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	03/03/2022		S <sup>(1)</sup>		7,862	D	\$60.28	188,086	D	
Common Stock	03/04/2022		M <sup>(2)</sup>		7,500	A	\$1.87	195,586	D	
Common Stock	03/04/2022		M <sup>(2)</sup>		12,500	A	\$15.01	208,086	D	
Common Stock	03/04/2022		S <sup>(2)</sup>		10,055	D	\$56.61 <sup>(3)</sup>	198,031	D	
Common Stock	03/04/2022		S <sup>(2)</sup>		4,445	D	\$57.66 <sup>(4)</sup>	193,586	D	
Common Stock	03/04/2022		S <sup>(2)</sup>		4,100	D	\$58.28 <sup>(5)</sup>	189,486	D	
Common Stock	03/04/2022		S <sup>(2)</sup>		1,400	D	\$59.43 <sup>(6)</sup>	188,086	D	
Common Stock	03/07/2022		S <sup>(1)</sup>		4,843	D	\$56.19 <sup>(7)</sup>	183,243	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		Date Exercisable	Expiration Date						Title
Stock Option (Right to Buy)	\$1.87	03/04/2022		M <sup>(2)</sup>		7,500	(8)	07/30/2024	Common Stock	7,500	\$0	127,903	D	
Stock Option (Right to Buy)	\$15.01	03/04/2022		M <sup>(2)</sup>		12,500	(9)	02/03/2026	Common Stock	12,500	\$0	65,000	D	

Explanation of Responses:

- 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.
- Effected pursuant to a trading plan adopted on January 11, 2021 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 \$56.03 to \$57.01 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) through (7) to this Form 4.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$57.04 to \$58.01 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$58.05 to \$58.63 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$59.10 to \$59.89 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions ranging from \$56.18 to \$56.90 per share.
- This option was granted on July 30, 2014 and is fully vested as of the date hereof.
- This option was granted on February 3, 2016 and is fully vested as of the date hereof.

/s/ Ariel Hurley, Attorney-in-Fact 03/08/2022

\*\* 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.

