

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>Haviland Kate</u> (Last) (First) (Middle) <u>C/O BLUEPRINT MEDICINES CORPORATION</u> <u>45 SIDNEY STREET</u> (Street) <u>CAMBRIDGE MA 02139</u> (City) (State) (Zip)	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 <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Chief Operating Officer</u>
	3. Date of Earliest Transaction (Month/Day/Year) <u>09/13/2021</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

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	09/13/2021		M ⁽¹⁾		1,000	A	\$36.05	54,948	D	
Common Stock	09/13/2021		S ⁽¹⁾		286	D	\$101.11 ⁽²⁾	54,662	D	
Common Stock	09/13/2021		S ⁽¹⁾		261	D	\$99.98 ⁽³⁾	54,401	D	
Common Stock	09/13/2021		S ⁽¹⁾		417	D	\$99.25 ⁽⁴⁾	53,984	D	
Common Stock	09/13/2021		S ⁽¹⁾		28	D	\$98.41 ⁽⁵⁾	53,956	D	
Common Stock	09/13/2021		S ⁽¹⁾		8	D	\$97.62 ⁽⁶⁾	53,948	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	Amount or Number of Shares
Stock Option (Right to Buy)	\$36.05	09/13/2021		M ⁽¹⁾			1,000		(7)	02/16/2027	Common Stock	1,000	\$0	1,591	D	

Explanation of Responses:

- Effected pursuant to a trading plan adopted on January 12, 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 at prices ranging from \$100.71 to \$101.69 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 (2) through (6) in this form 4.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$99.70 to \$100.67 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$98.70 to \$99.67 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$97.735 to \$98.67 per share.
- The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$97.61 to \$97.66 per share.
- This option was granted on February 16, 2017 and is fully vested as of the date hereof.

/s/ Ariel Hurley, Attorney-in-Fact 09/15/2021

** 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.