FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
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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* Haviland Kate (Last) (First) (Middle) C/O BLUEPRINT MEDICINES CORPORATION 38 SIDNEY STREET, SUITE 200 (Street) CAMBRIDGE MA 02139 (City) (State) (Zip)					3. C 10/	2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC] 3. Date of Earliest Transaction (Month/Day/Year) 10/05/2017 4. If Amendment, Date of Original Filed (Month/Day/Year)								X X	Chief Business Officer Individual or Joint/Group Filing (Check Applicable ne)					
		Tab	le I - No	on-Deriv	vative	Sec	uriti	ies Ac	quired	, Di	sposed c	of, or Be	nefici	ally	Owned	l				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,		Transaction Disposed O		es Acquired (A) or Of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned Following		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Direct Indirect Istr. 4)	7. Nature of Indirect Beneficial Ownership						
									Code	v	Amount	(A) or (D)	Price		Reporte Transac (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 10/05/2					/2017				M ⁽¹⁾		5,449	A	\$16	.28	5,	449		D		
Common Stock 10/0				10/05/	/2017	:017			S ⁽²⁾		885	D	\$67.	.33(3)		4,564		D		
Common Stock 10/05					/2017	017		S ⁽²⁾		3,303	D	\$66.	8(4)		1,261		D			
Common Stock 10/05/2					/2017	2017		S ⁽²⁾		1,261	D	D \$65.45 ⁽⁵⁾		0			D			
		Т	able II								osed of converti				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/D	on Date,	4. Transa Code (8)		n of		6. Date Exercis Expiration Date (Month/Day/Ye		te	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		De Se (Ir	erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transactior (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amour or Number of Shares	er						
Stock Option (Right to Buy)	\$16.28	10/05/2017			M ⁽¹⁾			5,449	(6)		02/01/2026	Common Stock	5,44	9	\$0	101,85	9	D		

Explanation of Responses:

- 1. The exercise reported on this Form 4 was effected pursuant to a trading plan adopted on December 20, 2016 pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended (the "Exchange
- 2. The sales reported on this Form 4 were effected pursuant to a trading plan adopted on December 20, 2016 pursuant to Rule 10b5-1 under the Exchange Act.
- 3. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$67.02 to \$68.00 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 5 to this Form 4.
- 4. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$65.98 to \$66.97 per share.
- 5. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$65.13 to \$65.96 per share.
- 6. This option was granted on February 1, 2016. This option vested with respect to 25% of the shares underlying the option on January 5, 2017 and as to an additional 1/48th of the shares underlying the option each month thereafter.

/s/ Christopher Frankenfield, Attorney-in-Fact

10/10/2017

** 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.

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