FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.C. 20040	OMB APPROVA			
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	323		

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

OMB APPRO	VAL				
OMB Number:	3235-0287				
Estimated average burde	en				
hours per response:	0.5				

1. Name and Address of Reporting Person Boral Anthony L. (Last) (First) (Middle) C/O BLUEPRINT MEDICINES CORPORATION 38 SIDNEY STREET, SUITE 200 (Street) CAMBRIDGE MA 02139 (City) (State) (Zip)					Blueprint Medicines Corp [BPMC]										ationship of Reporti k all applicable) Director Officer (give title		10% O		wner
						3. Date of Earliest Transaction (Month/Day/Year) 06/28/2017									below) below) Chief Medical Officer				
					-				, and the second		d (Month/Da	Liı	ne) X	Form fi Form fi Person	iled by One iled by Mor	t/Group Filing (Check Applicable by One Reporting Person by More than One Reporting			
1. Title of Security (Instr. 3) 2. Trans		2. Transa Date			n 2A. Deemed Execution Date,		3.		4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a			or 5. Amou Securiti Benefic		nt of es ally -ollowing	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership		
							Code	v	Amount	(A) or (D)	Price		Reported Transact (Instr. 3	tion(s)			(Instr. 4)		
Common	Stock			06/28	/2017	7			M ⁽¹⁾		10,000	A	\$8.8	В	10,	,000		D	
Common	Stock			06/28	/2017	7			S ⁽²⁾		4,586	D	\$51.0	8(3)	5,414 D				
Common	Stock			06/28	/2017	7			S ⁽²⁾		4,314	D	\$50.1	9(4)	1,100 D				
Common	Stock			06/28	/2017	7			S ⁽²⁾		1,100	D	\$49.0	7 ⁽⁵⁾		0 D			
		-	Table II								osed of, converti			y Oı	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/Da	n Date,	4. Transa Code (8)		5. Number on of		6. Date I Expiration (Month/I	on Da	Underlying Derivative Secu (Instr. 3 and 4)		ies g e Security nd 4)	De Se (In	B. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	Ownersi Form: Direct (I or Indire (I) (Instr.	Ownership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amount or Number of Shares	1					
Stock Option (Right to	\$8.8	06/28/2017			M ⁽¹⁾			10,000	(6)		02/10/2025	Common Stock	10,000		\$0	179,54	14	D	

Explanation of Responses:

- 1. The exercise reported on this Form 4 was effected pursuant to a trading plan adopted pursuant to Rule 10b5-1 under the Securities Exchange Act of 1934, as amended (the "Exchange Act").
- 2. The sales reported on this Form 4 were effected pursuant to a trading plan adopted 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 \$50.49 to \$51.48 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), (4) and (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 \$49.59 to \$50.48 per share.
- 5. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$48.96 to \$49.16 per share.
- 6. This option was granted on February 10, 2015. This option vested with respect to 25% of the shares underlying the option on February 9, 2016 and as to an additional 1/48th of the shares underlying the option each month thereafter.

/s/ Christopher Frankenfield, Attorney-in-Fact

06/30/2017

** 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.

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.