FORM 4

Instruction 1(b)

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	STATEMENT OF CH
Section 16. Form 4 or Form 5	OTATEMENT OF O
obligations may continue. See	

HANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* Boral Anthony L.						2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC]									k all appli Directo	tor er (give title		10% Owner Other (specify	
(Last) (First) (Middle) C/O BLUEPRINT MEDICINES CORPORATION 38 SIDNEY STREET, SUITE 200						3. Date of Earliest Transaction (Month/Day/Year) 08/09/2017									below) below) Chief Medical Officer				
(Street) CAMBR (City)			02139 (Zip)		_ 4. li	4. If Amendment, Date of Original Filed (Month/Day/Year)									Form filed by One Reporting Person Form filed by More than One Reporting Person				
(Oity)				on-Deriv	/ative	Sec	uriti	ies Ac	quired	I, Di	sposed o	of, or Be	enefici	ially	Owned				
1. Title of Security (Instr. 3) 2. Trans Date		2. Transa	ction	2A. Exe	2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4		d (A) or	sr 5. Am and 5) Secul Bene		nt of es ally -ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	rect of direct di 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) or (D)	Price			Reporte Transac (Instr. 3	tion(s)		Instr. 4)
Common Stock 08/0			08/09/	2017	2017					5,000	A	\$8	8.8	5,	000	D			
Common Stock 0			08/09/	/2017				S ⁽²⁾		1,815	D	\$49	.3 ⁽³⁾	3,	185	D			
Common Stock 08/09/2			2017	2017					3,085	D	\$48.	21(4)	1	100					
Common Stock 08/09/2				2017	.017			S ⁽²⁾		100	D	\$47	'.79	0		D			
		Т	able II								oosed of				wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deer Execution if any (Month/E		4. Transa Code (8)		5. Number on of		6. Date Exercis Expiration Date (Month/Day/Ye		te	7. Title and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)		Di Si (li	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	Owne Form Direct or Ind (I) (In:	nership	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisa		Expiration Date	Title	Amou or Number of Shares	er					
Stock Option (Right to	\$8.8	08/09/2017			M ⁽¹⁾			5,000	(5)		02/10/2025	Common Stock	5,00	0	\$0	174,54	4	D	

Explanation of Responses:

- 1. The exercise reported on this Form 4 was effected pursuant to a trading plan adopted on December 17, 2016 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 on December 17, 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 \$48.84 to \$49.83 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) and (4) to this Form 4.
- 4. The price reported is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$47.86 to \$48.83 per share.
- 5. 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

08/11/2017

** 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.