FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington D.C. 20549

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l	OMB APPRO	VAL
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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).

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

					or s	Section	1 30(h)	of the	Investm	nent C	ompany Act	of 1940								
1. Name and Address of Reporting Person* LEVIN MARK J						2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
LEVIN WARKS															Direc	ctor		X 10% C	Owner	
(Last) (First) (Middle) C/O THIRD ROCK VENTURES, LLC						3. Date of Earliest Transaction (Month/Day/Year) 03/16/2017									Officer (give title Other (specify below) below)					
29 NEWBURY STREET, 3RD FLOOR				4 If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable							
(Street) BOSTON MA 02116					-	4. II Amendment, Date of Original Filed (Month/Day/Year)								Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(St	ate) (Zip)																	
		Tabl	e I - N	on-Deri\	/ative	Sec	uritie	s Ac	quire	d, Di	sposed o	f, or B	enefic	ially	Owne	ed				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day				Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3,			and 5) Securit Benefic		ies cially Following	Forr (D) (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		Transa	ransaction(s) nstr. 3 and 4)			(111311. 4)		
Common Stock 03/16/2				2017	17		S		24,800	D	\$40.	74 ⁽¹⁾	116,444			D				
Common Stock 03/16/20				2017)17		S		5,200	D	\$41.	\$41.55(2)		111,244		D				
Common	Stock														3,453,753				See footnote ⁽³⁾	
	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)			Transa Code (6. Date Exercisable and Expiration Date (Month/Day/Year)		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		mount r umber f		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	v	V (A) (D)		Exercisable		Date	Title	Shares]				

Explanation of Responses:

- 1. This price is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$40.33 to \$41.33, inclusive. 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 (1) and (2) to this Form 4.
- 2. This price is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$41.34 to \$41.84, inclusive.
- 3. These shares are directly held by Third Rock Ventures II, L.P. ("TRV II"). The general partner of TRV GP II, LLC ("TRV GP II"). The general partner of TRV GP II is TRV GP II, LLC ("TRV GP II"). The individual managers of TRV GP II LLC are Mark Levin ("Levin"), Kevin Starr ("Starr") and Dr. Robert Tepper ("Tepper"). Each of TRV GP II, TRV GP II, LLC, Levin, Starr and Tepper disclaims beneficial ownership of the shares except to the extent of its or his pecuniary interest therein, if any, and this report shall not be deemed an admission that it or he is the beneficial owner of such shares.

Remarks:

/s/ Kevin Gillis by power of attorney for Mark Levin

03/20/2017

** 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.