SEC Form 4	
------------	--

Common Stock

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

t to

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

OMB APPRC	VAL
OMB Number:	3235-0287
Estimated average burd	en
hours per response:	0.5

D⁽²⁾

(1)

D

5,453,753

			01.		ivesime		inparty Act of 18	40					
1. Name and Address of Reporting Person [*] Third Rock Ventures II, L.P.				2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner			
	(First) ROCK VENTUI Y STREET, 3R			3. Date of Earliest Transaction (Month/Day/Year) 04/14/2016					Officer (give title below)	Other (s below)			
(Street) BOSTON (City)	MA (State)	02116 (Zip)	4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)					6. Indi Line) X	vidual or Joint/Group Form filed by On Form filed by Mo Person	e Reportin	ng Pers	on
		Table I - No	n-Derivative	Securities Acq	uired,	, Dis	posed of, o	r Ben	eficially	Owned			
		Date		saction 2A. Deemed Execution Date, if any (Month/Day/Year)		action (Instr.				5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	rect direct	7. Nature of Indirect Beneficial Ownership
					Code	v	Amount (A) or (D)		Price	Transaction(s) (Instr. 3 and 4)			(Instr. 4)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

04/14/2016

J⁽¹⁾

1,200,000

								•							
L. 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. Transa Code (8)		5. Nu of Deriv Secu Acqu (A) or Dispo of (D) (Instr and 5	ative rities ired osed	6. Date Exerc Expiration Da (Month/Day/Y	ate	7. Title Amou Securi Under Deriva Securi and 4)	nt of ities lying itive ity (Instr. 3	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				

		*
1.	Name and Address of Reporting	Person

(First) VENTURES, LLC EET, 3RD FLOOR MA (State) Reporting Person [*] <u>ITPS GP II, L.P.</u>	(Middle) 02116 (Zip)
EET, 3RD FLOOR MA (State) Reporting Person* <u>Ires GP II, L.P.</u>	
MA (State) Reporting Person [*] <u>ITes GP II, L.P.</u>	
(State) Reporting Person [*] <u>1res GP II, L.P.</u>	
(State) Reporting Person [*] <u>1res GP II, L.P.</u>	
Reporting Person [*] <u>Irres GP II, L.P.</u>	(Zip)
<u>ares GP II, L.P.</u>	
(First)	
(First)	(Middle)
EET, 3RD FLOOR	
MA	02116
(State)	(Zip)
Reporting Person*	
	(Middle)
(First)	· · ·
	(State) Reporting Person [*]

(Street)		
BOSTON	MA	02116
(City)	(State)	(Zip)
1. Name and Address or LEVIN MARK		
(Last)	(First)	(Middle)
C/O THIRD ROCK	VENTURES, LLC	
29 NEWBURY STI	REET, 3RD FLOOR	
(Street) BOSTON	MA	02116
(City)	(State)	(Zip)
1. Name and Address or STARR KEVIN		
(Last)	(First)	(Middle)
C/O THIRD ROCK	VENTURES, LLC	
29 NEWBURY STI	REET, 3RD FLOOR	
(Street)		
BOSTON	MA	02116
(City)	(State)	(Zip)
1. Name and Address or TEPPER ROBE		
(Last)	(First)	(Middle)
C/O THIRD ROCK	VENTURES, LLC	
29 NEWBURY STI	REET, 3RD FLOOR	
(Street)		
BOSTON	MA	02116
(City)	(State)	(Zip)

Explanation of Responses:

1. On April 14, 2016, Third Rock Ventures II, L.P. ("TRV II") distributed, for no consideration, 1,200,000 shares of Common Stock of the Issuer (the "Shares") to its limited partners and to Third Rock Ventures GP II, L.P. ("TRV GP II"), the general partner of TRV II, representing each such partner's pro rata interest in such Shares. On the same date, TRV GP II distributed, for no consideration, the Shares it received in the distribution by TRV II to its limited partners and to its general partner, TRV GP II, LLC ("TRV GP II LLC"), representing each such partner's pro rata interest in such Shares. On the same date, TRV GP II LLC, distributed, for no consideration, the Shares it received in the distribution by TRV GP II to its members in an amount equal to each such member's respective pro rata interest in such Shares. All of the aforementioned distributions were made in accordance with the exemptions afforded by Rules 16a-13 and 16a-9 of the Securities Exchange Act of 1934, as amended.

2. These shares are directly held by TRV II. The general partner of TRV II is TRV GP II. The general partner of TRV GP II is TRV GP II LLC. 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:

<u>/s/ Kevin Gillis, Chief</u> <u>Financial Officer of TRV GP</u> <u>II, LLC, general partner of</u> <u>Third Rock Ventures GP II,</u> <u>L.P., general partner of Third</u> <u>Rock Ventures II, L.P.</u>	<u>04/15/2016</u>
<u>/s/ Kevin Gillis, Chief</u> <u>Financial Officer of TRV GP</u> <u>II, LLC, general partner of</u> <u>Third Rock Ventures GP II,</u> <u>L.P.</u>	<u>04/15/2016</u>
<u>/s/ Kevin Gillis, Chief</u> <u>Financial Officer of TRV GP</u> <u>II, LLC</u>	<u>04/15/2016</u>
<u>/s/ Kevin Gillis by power of</u> <u>attorney for Mark Levin</u>	<u>04/15/2016</u>
<u>/s/ Kevin Gillis by power of</u> <u>attorney for Kevin Starr</u>	<u>04/15/2016</u>
<u>/s/ Kevin Gillis by power of</u> attorney for Dr. Robert Tepper	<u>04/15/2016</u>
** Signature of Reporting Person	Date

 * 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.