

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 APPROVAL	
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1. Name and Address of Reporting Person* FMR LLC			2. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) <input checked="" type="checkbox"/> Other (specify below) See Remark 1		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 11/13/2015			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
245 SUMMER STREET			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street)	BOSTON	MA	02210					
(City)	(State)	(Zip)						

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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			
Common Stock	11/13/2015		J		1,204,280	D	\$0	1,296,431	I	See Footnote 1 ⁽¹⁾
Common Stock	11/13/2015		G		68,628	D	\$0	1,227,803	I	Shares held by persons and entities whose shares are subject to reporting by the undersigned.
Common Stock	11/13/2015		G		4,567	D	\$0	1,223,236	I	Shares held by persons and entities whose shares are subject to reporting by the undersigned.
Common Stock	11/13/2015		G		25,955	D	\$0	1,197,281	I	Shares held by persons and entities whose shares are subject to reporting by the undersigned.

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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	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					

Explanation of Responses:

1. Beacon Bioventures Fund III Limited Partnership made a pro-rata distribution to its partners, without payment of consideration, of 2,313,158 shares of Blueprint Medicines Corp. previously reported by FMR LLC. Beacon Bioventures Fund III Limited Partnership distributed 1,492,158 shares to Impresa Fund III Limited Partnership (IFLP), 17,441 shares to Beacon Bioventures Advisors Fund III Limited Partnership (BBAF) and 803,559 shares to a recipient whose shares are not subject to reporting by the undersigned (an Other Recipient). BBAF made a pro-rata distribution to its partners, without payment of

consideration, of 2,205 shares to F-Prime Inc. and 15,236 shares to Other Recipients. IFLP made a pro-rata distribution to its partners, without payment of consideration, of 385,485 shares to Other Recipients and 1,031,533 shares to persons and entities whose shares are subject to reporting by the undersigned.

Remarks:

Remark 1: Edward C. Johnson 3d is a Director and the Chairman of FMR LLC and Abigail P. Johnson is a Director, the Vice Chairman, the Chief Executive Officer and the President of FMR LLC. Members of the family of Edward C. Johnson 3d, including Abigail P. Johnson, are the predominant owners, directly or through trusts, of Series B voting common shares of FMR LLC, representing 49% of the voting power of FMR LLC. The Johnson family group and all other Series B shareholders have entered into a shareholders' voting agreement under which all Series B voting common shares will be voted in accordance with the majority vote of Series B voting common shares. Accordingly, through their ownership of voting common shares and the execution of the shareholders' voting agreement, members of the Johnson family may be deemed, under the Investment Company Act of 1940, to form a controlling group with respect to FMR LLC. The address of Edward C. Johnson 3d and Abigail P. Johnson is c/o FMR LLC, 245 Summer Street, Boston, MA 02110. Remark 2: The filing of this statement shall not be deemed to be an admission that, for purposes of Section 16 of the Securities Exchange Act of 1934 or otherwise, the undersigned are the beneficial owners of any securities reported herein.

Marc R. Bryant, Duly
authorized under Powers of
Attorney, by and on behalf of
FMR LLC and its direct and 11/17/2015
indirect subsidiaries, Edward
C. Johnson 3d and Abigail P.
Johnson

** 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.