FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL						
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* McCain Tracey L		. Date of Event Requiring Staten Month/Day/Year 19/06/2016	nent T	3. Issuer Name and Ticker or Trading Symbol Blueprint Medicines Corp [BPMC]						
(Last) (First) (Middle) C/O BLUEPRINT MEDICINES CORPORATION				Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner		er	5. If Amendment, Date of Original Filed (Month/Day/Year)			
38 SIDNEY STREET, S	UITE 200				Officer (give title below) EVP and Chief Lega	below)		Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person		
(Street) CAMBRIDGE MA	02139							Form filed b Reporting P	oy More than One Person	
(City) (State)	(Zip)									
	Т	able I - Non	-Derivativ	ve Sec	curities Beneficiall	y Owned				
1. Title of Security (Instr. 4)	Т	able I - Non	2.	Amoun	curities Beneficiall t of Securities lly Owned (Instr. 4)	3. Ownersh Form: Direct or Indirect (Instr. 5)	ct (D) (II	Nature of Indirect	t Beneficial Ownership	
1. Title of Security (Instr. 4)		Table II - D	2. Be	Amoun eneficial	t of Securities	3. Ownersh Form: Direct or Indirect (Instr. 5)	et (D) (II (I)		t Beneficial Ownership	
Title of Security (Instr. 4) Title of Derivative Securit	(e.ç	Table II - D	2. Be Derivative IS, warran	Amoun eneficial Secunts, op	t of Securities Ily Owned (Instr. 4) rities Beneficially (3. Ownersh Form: Direct or Indirect (Instr. 5) Owned securities	et (D) (II (I)	5. Ownership	6. Nature of Indirect Beneficial Ownership (Instr. 5)	

Explanation of Responses:

Remarks:

Exhibit 24 - Limited Power of Attorney

No securities are beneficially owned.

/s/ Christopher Frankenfield, Attorney-in-Fact

09/12/2016

** 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 5 (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.

The undersigned hereby constitutes and appoints each of Michael Landsittel, Ariel Hurley and Christopher Frankenfield, and each of them individually, and with full power of substitution, the undersigned's true and lawful attorney-infact to:

- (1) Complete and execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or ten percent (10%) shareholder of Blueprint Medicines Corporation, a Delaware corporation (the "Company"), any and all instruments, certificates and documents required to be executed on behalf of the undersigned as an individual or on behalf of the undersigned's company or partnership, as the case may be, pursuant to Section 13 and Section 16 of the Securities Exchange Act of 1934, as amended (the "Exchange Act") or the rules and regulations thereunder;
- (2) Do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such instruments, certificates or documents required to be filed pursuant to Sections 13 and 16 of the Exchange Act or the rules or regulations thereunder and timely file such forms with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (3) Take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by any such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in such attorney-in-fact's discretion.

The undersigned hereby grants to each such attorney-in-fact, acting singly, full power and authority to do and perform any and every act which is necessary, proper or desirable to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that any such attorney-in-fact, or any such attorney-in-fact's substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted.

The undersigned acknowledges that each of the foregoing attorneys-in-fact, in serving in such capacity at the request of the undersigned, are not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 13 or Section 16 of the Exchange Act or the rules or regulations thereunder. The undersigned hereby agrees to indemnify each attorney-in-fact and the Company from and against any demand, damage, loss, cost or expense arising from any false or misleading information provided by the undersigned to such attorney-in fact.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file any instruments, certificates and documents pursuant to Section 13 and 16 of the Exchange Act or the rules or regulations thereunder with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of September 6, 2016.

By: /s/ Tracey L. McCain

Name: Tracey L. McCain