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

				. ,								
1. Name and Address of Reporting Person*  Westphal Christoph H  2. Date of Event Requiring Statement (Month/Day/Year) 01/28/2015			tatement 'Year)	3. Issuer Name and Ticker or Trading Symbol Flex Pharma, Inc. [ FLKS ]								
(Last) C/O FLEX PI	Last) (First) (Middle) C/O FLEX PHARMA, INC.			Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director 10% Owner				5. If Amendment, Date of Original Filed (Month/Day/Year)				
800 BOYLSTON STREET				X	Officer (give title below)		Other (speci below)		6. Individual or Joint/Group Filing (Check Applicable Line)			
(Street)					President and CEO				X Form filed by One Reporting Person			
BOSTON MA 02199									Form filed by More than One Reporting Person			
(City)	(State)	(Zip)										
Table I - Non-Derivative Securities Beneficially Owned												
1. Title of Security (Instr. 4)					unt of Securities ially Owned (Instr. 4)			(D) (Ins	4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Common Stock					3,902,926	D2,926 D						
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)												
1. Title of Derivative Security (Instr. 4)		tr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Ur Derivative Security (Instr. 4)		Underlying	4. Conversion	se Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)		
			Date Exercisable	Expiration Date	Title		Nur	ount or mber of ares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)		
Series A Prefe	rred Stock		(1)	(2)	Common Stock 8		8,0	000,000(3)(4)	0.00	I	By Longwood Fund II, L.P.	
Series B Preferred Stock		(1)	(2)	Co	ommon Stock	2,2	.12,756 <sup>(3)(4)</sup>	0.00	I	By Longwood Fund II, L.P.		

#### **Explanation of Responses:**

- 1. N/A.
- 2. There is no expiration date.
- 3. Longwood Fund II GP, LLC is the ultimate General Partner of Longwood Fund II, L.P. Christoph Westphal, M.D., Ph.D., Richard Aldrich and Michelle Dipp, M.D., Ph.D. (collectively, the "Managers") are managers of Longwood Fund II GP, LLC, and, as such, may be deemed to have shared voting and dispositive power with respect to the issuer's securities held by Longwood Fund II, L.P. (the "Longwood Shares"). Each of the Managers disclaim beneficial ownership of the Longwood Shares, except to the extent of their respective pecuniary interest therein, and the inclusion of these shares in this report shall not be deemed an admission of beneficial ownership of the shares for purposes of Section 16 or for any other purpose.
- 4. The shares will automatically convert on a 4.2825-for-1 basis into shares of the Issuer's Common Stock immediately upon the cloisng of a Qualified Public Offering (as defined in the Amended and Restated Certificate of Incorporation) as filed with the State of Delaware.

### Remarks:

/s/ John McCabe, Attorney-in-

01/28/2015

<u>Fact</u>

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.

#### POWER OF ATTORNEY

Know all, by these presents, that the undersigned hereby constitutes and appoints each of Robert Hadfield and John McCabe, signing individually, the undersigned's true and lawful attorneys-in fact and agents to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director or holder of 10% of more of a registered class of securities of Flex Pharma, Inc. (the "Company"), Forms 3, 4 and 5 and any amendments thereto, in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act") and the rules thereunder;
- (2) do and perform any and all acts for and on behalf of the undersigned that may be necessary or desirable to complete and execute such Form 3, 4 or 5, complete and execute any amendment or amendments thereto, and timely file such forms or amendments with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (3) take any other action of any nature whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by 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 full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper 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 such attorney-in-fact, or 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 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 16 of the Exchange Act.

This Power of Attorney shall remain in full force and effect until the earliest to occur of (a) the undersigned is no longer required to file Forms 3, 4 and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, (b) revocation by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact or (c) as to any attorney-in-fact individually, until such attorney-in-fact shall no longer be employed by the Company.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 28th day of January, 2015.

/s/Christoph Westphal
(Signature)

Christoph Westphal (Print Name)