## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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hours per response:	0.5								

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

1. Name and Address of Reporting Person* <u>Westphal Christoph H</u>						2. Issuer Name <b>and</b> Ticker or Trading Symbol Flex Pharma, Inc. [FLKS]								(Ched	Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director X 10% Owner				
(Last) (First) (Middle) C/O FLEX PHARMA, INC. 800 BOYLSTON STREET					3. Date of Earliest Transaction (Month/Day/Year) 06/15/2016								X	X Officer (give title other (specify below)  President and CEO					
(Street) BOSTOM	Street) BOSTON MA 02199						4. If Amendment, Date of Original Filed (Month/Day/Year)								. Individual or Joint/Group Filing (Check Applicable ine)  X Form filed by One Reporting Person  Form filed by More than One Reporting  Person				
		Tabl	e I - No	1		_			·	l, Dis	sposed o	-			1				
Date				2. Transa Date (Month/D	Execution Da		Date,	Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			4 and 5) Secu Bene Own		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) (	or Pr	ice		rted action(s) 3 and 4)		(Instr. 4)	
Common Stock 06/15/20						016		P		2,900	A	\$	\$11.24(1)		195,561	I	See notes <sup>(2)(3)</sup>		
Common Stock 06/16/20					2016	2016			P		2,900	A	\$	11.1 <sup>(4)</sup>	3,	198,461	I	See notes <sup>(3)(5)</sup>	
Common Stock															3,	925,248	D		
		Та	ble II -								osed of, convertib				wned				
1. Title of Derivative Security (Instr. 3)	ivative Conversion Date Executio or Exercise (Month/Day/Year) if any			4. Transaction Code (Instr. 8)				6. Date Exerci Expiration Da (Month/Day/You		te	7. Title and Amount of Securities Underlying Derivative Security (Ins and 4)  Amo or Num of Title Shar		De Se (In:	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

- 1. The price in Column 4 is a weighted average purchase price. The prices actually received ranged from \$11.15 to \$11.30. The reporting person will provide to the Issuer, any security holder of the Issuer, or the SEC staff, upon request, information regarding the number of shares purchased at each price within the range.
- 2. On June 15, 2016, Longwood Fund III, L.P. ("Longwood Fund III") purchased 2,900 shares of common stock of the Issuer (the "Common Shares"), Following such purchase, Longwood Fund III owned 498,297 Common Shares and Longwood Fund II, L.P. ("Longwood Fund II") owned 2,697,264 Common Shares.
- 3. Longwood Fund II GP, LLC is the ultimate General Partner of Longwood Fund III and Longwood Fund III GP, LLC is the ultimate General Partner of Longwood Fund III. 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 Longwood Fund III 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 and Longwood Fund III (the "Longwood Shares"). Each of the Managers disclaims 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 price in Column 4 is a weighted average purchase price. The prices actually received ranged from \$10.98 to \$11.34. The reporting person will provide to the Issuer, any security holder of the Issuer, or the SEC staff, upon request, information regarding the number of shares purchased at each price within the range.
- 5. On June 16, 2016, Longwood Fund III purchased 2,900 Common Shares. Following such purchase, Longwood Fund III owned 501,197 Common Shares and Longwood Fund II owned 2,697,264 Common

## Remarks:

/s/ Robert Hadfield, Attorney-\*\* Signature of Reporting Person

06/17/2016

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.