FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average b	ourden								

0.5

hours per response:

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]								S. Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director X 10% Owner						
` ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '						3. Date of Earliest Transaction (Month/Day/Year) 05/04/2015								X Officer (give title Other (specify below)  President and CEO						
(Street) BOSTON MA 02199 (City) (State) (Zip)					- 4. II	4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person						
		Tabl	e I - N	lon-Deriv	/ative	Sec	uritie	s Ac	quire	d, Di	sposed o	f, or B	enefici	ally	Owne	ed				
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Y			ion	n 2A. Deemed Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 ar			5. Amou Securiti Benefic Owned		unt of es ially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a		ction(s)			(Instr. 4)	
Common Stock 05/04/201				015	15			<b>P</b> (1)	П	310	A	\$18.17	706 3,90		04,563		D			
Common Stock															2,69	97,264		I	By Longwood Fund II. L.P. <sup>(2)</sup>	
		Та	ble II								oosed of, convertib				wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Date Execut		4. Transa Code ( 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exer Expiration D (Month/Day/		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		De Se	Price of erivative ecurity istr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	у	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
		Code V (A)		(A)	(D)	Date Exerc	isable	Expiration Date	Title	or Number of Shares	r									

## **Explanation of Responses:**

2. 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 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.

## Remarks:

/s/ Robert Hadfield, Attorneyin-Fact 05/06/2015

\*\* 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.

 $<sup>1. \</sup> The purchase \ reported in this Form \ 4 \ was \ effected \ pursuant \ to \ a \ Rule \ 10b5-1 \ trading \ plan \ adopted \ on \ February \ 17, \ 2015.$