SEC Form 4	
------------	--

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	,
Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(b).	

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

	ROVAL								
OMB Number:	3235-0287								
Estimated average burden									

Estimated average burden		
hours per response:		0.5

1. Name and Address of Reporting Person [*] Westphal Christoph H			2. Issuer Name and Ticker or Trading Symbol Flex Pharma, Inc. [FLKS]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>westphar</u>	<u>.nristopn H</u>		,,,,,,,	X	Director	Х	10% Owner			
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	- x	Officer (give title below)		Other (specify below)			
C/O FLEX PHARMA, INC. 800 BOYLSTON STREET			09/21/2015		President and CEO					
000 DO I L3 I	ON SIREEI		4. If Amendment, Date of Original Filed (Month/Day/Year)	6 Indi	vidual or Joint/Grou	n Eiling	(Check Applicable			
(Street)				Line)		p i mig	(Check Applicable			
BOSTON	МА	02199		X	Form filed by Or	ne Repor	rting Person			
					Form filed by Mo Person	ore than	One Reporting			
(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. Transa Code (8)	action Disposed Of (D) (Instr. 3, 4 and Securities (Instr. 5) Beneficially		Disposed Of (D) (Instr. 3, 4 and 5)			6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount (A) o (D)		Price	Transaction(s) (Instr. 3 and 4)		(1130. 4)
Common Stock	09/21/2015		P ⁽¹⁾		733	A	\$16.04	3,913,811	D	
Common Stock								2,697,264	I	By Longwood Fund II. L.P. ⁽²⁾

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)	Transaction Code (Instr. 8)		of Derivative Securities Acquired (A) or Disposed		f Expiration Date ervivative (Month/Day/Year) ecurities cquired A) or isposed		Deriva Securi	nt of ties ying tive	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)										
	Price of Derivative	(Securities Acquired (A) or		Securities Acquired (A) or Disposed of (D) (Instr. 3, 4		(Month/Day/Year)						Un De Se				Underlying Derivative Security (Instr. 3 and 4)			Beneficially Owned Following	Direct (D) or Indirect	Ownership
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares														

Explanation of Responses:

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

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, Attorney-	00/22/2015
in-Fact	<u>09/22/2015</u>

** 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.