SEC Form 4	
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# 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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden								
OMB Number:	3235-0287							

Estimated average burden		
hours per response:		0.5

	dress of Reporting P	erson*	2. Issuer Name and Ticker or Trading Symbol Flex Pharma, Inc. [FLKS]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
<u>Westphal Christoph H</u>				X	Director	Х	10% Owner				
(Last) (First) (Middle)		(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	x	Officer (give title below)		Other (specify below)				
C/O FLEX PI	HARMA, INC.		05/18/2015		Presiden	t and C	CEO				
800 BOYLST	ON STREET										
(Street)			4. If Amendment, Date of Original Filed (Month/Day/Year)	r) 6. Individual or Joint/Group Filing (Check Ap Line)			(Check Applicable				
BOSTON	MA	02199		X	Form filed by One	e Repor	ting Person				
					Form filed by Mo Person	re than (	One Reporting				
(City)	(State)	(Zip)									

## Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

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1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1150. 4)	
Common Stock	05/18/2015		P <sup>(1)</sup>		323	A	\$17.0398	3,905,199	D		
Common Stock								2,697,264	Ι	By Longwood Fund II. L.P. <sup>(2)</sup>	

### 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.         3. Transaction Date (Month/Day/Year)         3A. Deemed Execution Date, if any (Month/Day/Year)						ans,	vvaii	ants,	options,	convertin	10 300	Junitesj						
	Derivative Security	Conversion or Exercise	Date	Execution Date, if any	4. Transa Code ( 8)		Secu Acqu (A) or Dispo of (D)	f Expiration Date (Month/Day/Year) ccquired A) or isposed f (D) nstr. 3, 4				xpiration Date Amount of		nt of ties ying tive ty (Instr. 3	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					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-05/20/2015 in-Fact

\*\* 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.