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

OMB APPROVAL								
OMB Number:	3235-0287							
Estimated average burden								

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. Issuer Name and Ticker or Trading Symbol Flex Pharma, Inc. [FLKS]								Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director X 10% Owner						
	(Fii X PHARM LSTON ST	A, INC.	Middle)		3. Date of Earliest Tra 06/15/2015					(Mont	h/Day/Year)			X Officer (give title Other (specify below) President and CEO						
(Street) BOSTON (City)	N M.	A 0)2199 Zip)		4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Indi Line) X													son	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Y				Execution Date,				4. Securities Disposed Of			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership					
								Code	v	Amount			(A) or (D)	Price	ction(s)			(Instr. 4)		
Common Stock 06/15/201					015	15		P (1)		284	A	\$19.37	733 3,9		06,097		D			
Common Stock															2,69	97,264		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)	Derivative Conversion Date Execution Date, T Security or Exercise (Month/Day/Year) if any					5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expira	te Exer ation D th/Day/		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Sec	. Price of lerivative lecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	y 0	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership t (Instr. 4)		
					Code	V (A) (D) Date Exercisab				isable	Expiration Date	Title	Number of Shares							

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 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-06/16/2015 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.

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