FORM 4

obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject to Section 16. Form 4 or Form 5

OMB APPROVAL										
OMB Number:	3235-0287									
Estimated average burden										
hours per response:	0.5									

(Instr. 4)

By Longwood

Fund II. L.P.(2)

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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 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) 2. Issuer Name and Ticker or Trading Symbol 1. Name and Address of Reporting Person* Flex Pharma, Inc. [FLKS] Westphal Christoph H Director X 10% Owner Officer (give title Other (specify below) below) (Last) (First) (Middle) 3. Date of Earliest Transaction (Month/Day/Year) 07/13/2015 President and CEO C/O FLEX PHARMA, INC. 800 BOYLSTON STREET 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) (Street) Form filed by One Reporting Person 02199 **BOSTON** MA Form filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) 1. Title of Security (Instr. 3) 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature of **Execution Date** Transaction Securities Form: Direct Indirect if any (Month/Day/Year) (D) or Indirect (I) (Instr. 4) Beneficial Ownership Code (Instr. Beneficially (Month/Day/Year) 8) Owned Following

> Code ν

p(1)

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Table II - Derivative S	Securities Aca	uired C	Disnosed of	or Ren	eficially (Owned
Table II - Delivative c	occurring Acq	uncu, L	naposcu oi,	OI DCI	circially v	JVVIICU
(e.g., puts. c	calls, warrants	s. option	ns. convertib	le seci	urities)	

(e.g., puts, cails, warrants, options, convertible securities)															ı		
	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)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	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:

Common Stock

Common Stock

07/13/2015

Remarks:

/s/ Robert Hadfield, Attorney-07/14/2015 in-Fact

Reported

(A) or (D)

A

Price

\$17,4083

Amount

324

Transaction(s) (Instr. 3 and 4)

3,907,327

2,697,264

** 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.

^{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.