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

	ROVAL
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Estimated average burden	
hours per response:	0.5

Name and Address of Reporting Person [*] Westphal Christoph H			2. Issuer Name and Ticker or Trading Symbol Flex Pharma, Inc. [FLKS]		tionship of Reporting I all applicable) Director	n(s) to Issuer 10% Owner	
	Last) (First) (Middle) C/O FLEX PHARMA, INC. 300 BOYLSTON STREET Street)		3. Date of Earliest Transaction (Month/Day/Year) 03/21/2016	X	Officer (give title below) President a	nd C	Other (specify below) EO
(Street) BOSTON (City)	MA (State)	02199 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group F Form filed by One F Form filed by More f Person	Report	ing Person

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)		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		
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)		
Common Stock	03/21/2016		Р		24,107	A	\$ 11.7 ⁽¹⁾	2,887,004	Ι	See notes ⁽²⁾⁽³⁾		
Common Stock	03/21/2016		Р		23,951	A	\$11.78 ⁽⁴⁾	2,910,955	I	See notes ⁽³⁾⁽⁵⁾		
Common Stock								3,925,248	D			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

			יפיט) א	at5, 0	, and,	man	unto,	options,			Janacoj				
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. Transa Code (8)				6. Date Exerc Expiration Da (Month/Day/)	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)	Ownership	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 price in Column 4 is a weighted average purchase price. The prices actually received ranged from \$10.81 to \$12.07. The reporting person will provide to the Issuer, any security holder of the Issuer, or the SEC staff, upon request, information regarding the number of shares purchased at each price within the range.

2. On March 21, 2016, Longwood Fund III, L.P. ("Longwood Fund III") purchased 24,107 shares of common stock of the Issuer (the "Common Shares"). Following such purchase, Longwood Fund III owned 189,740 Common Stock and Longwood Fund II, L.P. ("Longwood Fund II") owned 2,697,264 Common Shares.

3. Longwood Fund II GP, LLC is the ultimate General Partner of Longwood Fund II and Longwood Fund III GP, LLC is the ultimate General Partner of Longwood Fund III. 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 Longwood Fund III 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 and Longwood Fund III (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.

4. The price in Column 4 is a weighted average purchase price. The prices actually received ranged from \$11.66 to \$11.86. The reporting person will provide to the Issuer, any security holder of the Issuer, or the SEC staff, upon request, information regarding the number of shares purchased at each price within the range.

5. On March 22, 2016, Longwood Fund III purchased 23,951 Common Shares. Following such purchase, Longwood Fund III owned 213,691 Common Shares and Longwood Fund II owned 2,697,264 Common Shares.

Remarks:

/s/ Robert Hadfield, Attorney-

in-Fact

03/23/2016

** 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.