FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See 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

1. Name and Address of Reporting Person* McCabe John P.						2. Issuer Name and Ticker or Trading Symbol Flex Pharma, Inc. [FLKS]							of Reporting cable) r (give title	g Perso	on(s) to Issu 10% Ow Other (sp	ner
(Last) (First) (Middle) C/O FLEX PHARMA, INC. 800 BOYLSTON STREET					3. Date of Earliest Transaction (Month/Day/Year) 01/18/2017							below)	hief Finar	ncial C	below)	
(City) (State) (C			02199 (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Cline) X Form filed by One Reporti Form filed by More than O								ting Person			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1. Title of Security (Instr. 3) 2. Transaction 3. 4. Securities Acquired (A) or 5. Amount of 6. Ownership 7. Nature																
Date					ear) i	ZA. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)		d Of (D) (Instr. 3, 4 ar			s ally ollowing	Form:	Direct of Endirect Etr. 4)	of Indirect Beneficial Ownership (Instr. 4)
								Code V	Amount	(A) or (D)	Price	Transact (Instr. 3 a	on(s) nd 4)		["	
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/Yea	Code (Instr				6. Date Exerc Expiration Da (Month/Day/Y	ite	7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following Reported Transactio (Instr. 4)	ly [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					
Stock Option (right to buy)	\$4.58	01/18/2017		A		67,000		(1)	01/18/2027	Common Stock	67,000	\$0	67,000		D	

Explanation of Responses:

1. The stock option will vest in 48 successive equal monthly installments measured from January 18, 2017.

Remarks:

/s/ Robert Hadfield, Attorney-

01/20/2017

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.