FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

wasnington, D.C. 20

OMB APPROVAL	
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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 S	Section	on 30(h)	of the i	nvestmer	nt Con	npany Act o	of 194	10					
	nd Address of ARTNER	Reporting Person* S L P/IL							er or Tra	_	Symbol	E]			. Relationsh Check all ap Dire	plicable)	g Person(s) to I	
(Last) 1 SANS(30TH FL		rst) (Middle)				of Earlies	st Trans	action (M	onth/I	Day/Year)				Offic belo	er (give title w)	Other below	(specify)
Street) SAN FRANCI	SCO CA	A 9	94104		- 4. If	Ame	endment	, Date o	of Original	Filed	(Month/Da	ıy/Yea	ar)		ine) Fori	n filed by One n filed by Moi	Filing (Check A Reporting Pers re than One Rep	son
(City)	(St		Zip)															
. Title of S	Security (Inst		le I - Noi	2. Trans Date (Month/	action	2 F) i	ZA. Deen Execution f any Month/D	ned n Date,	3. Transa Code (ction	4. Securit	ies Ac	quired	(A) or	nd Secu Bene Owne	ount of rities ficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
									Code	v	Amount	(A) or D)	Price		rted action(s) 3 and 4)		(Instr. 4)
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/15	5/2017				P		6,774		A	\$3.8	337 1,	569,268	D ⁽²⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/15	5/2017				P		3,845		A	\$3.8	337 1,	014,324	D ⁽³⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/15	5/2017				P		1,160		A	\$3.8	337 2	85,331	D ⁽⁴⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/16	5/2017				P		6,097		A	\$3.	85 1,	575,365	D ⁽²⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/16	5/2017				P		3,873		A	\$3.	85 1,	018,197	D ⁽³⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/16	5/2017				P		1,064		A	\$3.	85 2	86,395	D ⁽⁴⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/19	9/2017				P		1,967		A	\$3.	85 1,	577,332	D ⁽²⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/19	9/2017				P		1,271		A	\$3.	85 1,	019,468	D ⁽³⁾	
Common	Stock, no p	ar value per sha	re ⁽¹⁾	06/19	9/2017				P		357		A	\$3.	85 2	86,752	D ⁽⁴⁾	
		Ta									sed of, onvertib				y Owned			
Title of Derivative Security Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	ed Date,	4. Transa Code (l	ction	5. Nu of Deriv Secu Acqu (A) o Dispo	umber vative urities uired or osed) r. 3, 4	6. Date E Expiratio (Month/D	xercis	able and	7. Tir Amo Secu Undo Deriv	tle and ount of urities erlying vative urity (In		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nui of	ount mber ares				
	nd Address of ARTNER	Reporting Person* S L P/IL																
(Last) 1 SANS(30TH FL	OME ST	(First)	(Midd	dle)														
						- 1												

(Street) SAN FRANCISCO CA 94104 (City) (State) (Zip) 1. Name and Address of Reporting Person* BIOTECHNOLOGY VALUE FUND L P (Last) (First) (Middle)

1 SANSOME ST 30TH FL							
(Street) SAN FRANCISCO	CA	94104					
(City)	(State)	(Zip)					
1. Name and Address of Reporting Person* BIOTECHNOLOGY VALUE FUND II LP							
(Last) 1 SANSOME ST 30TH FL	(First)	(Middle)					
(Street) SAN FRANCISCO	CA	94104					
(City)	(State)	(Zip)					
Name and Address of Reporting Person* <u>Biotechnology Value Trading Fund OS LP</u>							
(Last) P.O. BOX 309 UGL	(First) ,AND HOUSE	(Middle)					
(Street) GRAND CAYMAN	E9	KY1-1104					
(City)	(State)	(Zip)					
Name and Address of Reporting Person* BVF Partners OS Ltd.							
(Last) P.O. BOX 309 UGL	(First) AND HOUSE	(Middle)					
(Street) GRAND CAYMAN	E9	KY1-1104					
(City)	(State)	(Zip)					
1. Name and Address of Reporting Person* BVF INC/IL							
(Last) 1 SANSOME ST 30TH FL	(First)	(Middle)					
(Street) SAN FRANCISCO	CA	94104					
(City)	(State)	(Zip)					
1. Name and Address of Reporting Person* LAMPERT MARK N							
(Last) 1 SANSOME ST 30TH FL	(First)	(Middle)					
(Street) SAN FRANCISCO	CA	94104					
(City)	(State)	(Zip)					

owns more than 10% of the Issuer's outstanding shares of Common Stock. Each of the Reporting Persons disclaims beneficial ownership of the shares of Common Stock reported herein except to the extent of his or its pecuniary interest therein.

- 2. Shares of Common Stock owned directly by BVF. As the general partner of BVF, Partners may be deemed to beneficially own the shares of Common Stock owned directly by BVF. As the investment adviser and general partner of Partners, BVF Inc., may be deemed to beneficially own the shares of Common Stock owned directly by BVF. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by BVF.
- 3. Shares of Common Stock owned directly by BVF2. As the general partner of BVF2, Partners may be deemed to beneficially own the shares of Common Stock owned directly by BVF2. As the investment adviser and general partner of Partners, BVF Inc., may be deemed to beneficially own the shares of Common Stock owned directly by BVF2. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by BVF2.
- 4. Shares of Common Stock owned directly by Trading Fund OS. As the general partner of Trading Fund OS, Partners OS may be deemed to beneficially own the shares of Common Stock owned directly by Trading Fund OS. As the investment manager of Trading Fund OS and the sole member of Partners OS, Partners may be deemed to beneficially own the shares of Common Stock owned directly by Trading Fund OS. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the shares of Common Stock owned directly by Trading Fund OS. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the shares of Common Stock owned directly by Trading Fund OS.

BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ 06/19/2017 Mark N. Lampert, President Biotechnology Value Fund, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., 06/19/2017 its general partner, By: /s/ Mark N. Lampert, President Biotechnology Value Fund II, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., 06/19/2017 its general partner, By: /s/ Mark N. Lampert, President BVF Partners OS Ltd., By: BVF Partners L.P., its sole member, By: BVF Inc., its 06/19/2017 general partner, By: /s/ Mark N. Lampert, President Biotechnology Value Trading Fund OS LP, By: BVF Partners L.P., its investment manager, 06/19/2017 BVF Inc., its general partner, By: /s/ Mark N. Lampert, President BVF Inc., By: /s/ Mark N. 06/19/2017 Lampert, President /s/ Mark N. Lampert 06/19/2017

** Signature of Reporting Person

Date

 $\label{lem:Reminder:Report on a separate line for each class of securities beneficially owned directly or indirectly.$

- * 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.