(Street)

SAN FRANCISCO CA

94104

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 1/b)
Instruction 1(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

7. Nature of Indirect Beneficial Ownership (Instr. 4)

11. Nature of Indirect Beneficial Ownership (Instr. 4)

	ction 1(b).	muc. Sec		File			Section 16(a)						4		nours	per response.	
4 Name -		f Reporting Person*			_		n 30(h) of the Ir Name and Tick				of 1940)	5	Relationsh	in of Reportir	ng Person(s) t	n Issuer
ı		RS L P/IL					Pharmace				E]			heck all ap		.,	% Owner
,														Offic	cer (give title	Oth	er (specify
						3. Date of Earliest Transaction (Month/Day/Year) 06/21/2017								belo	ow)	belo	ow)
30TH FI					00,2	_,	, 1,										
					4. If A	Amer	ndment, Date of	f Original	Filed	I (Month/Da	ay/Yeaı	r)			or Joint/Grou	p Filing (Chec	k Applicable
(Street) SAN													Lin	,	m filed by On	e Reporting P	erson
FRANC	ISCO C	A	94104											X For		re than One F	Reporting
(City)	(9	State)	(Zip)														
(0.13)		•		n-Deriv	ative	Sec	urities Acq	wired	Dis	nosed o	of or	Bene	ficia	lly Own	ed		
1. Title of	Security (Ins		1-1101	2. Trans		2	A. Deemed	3.		4. Securi	ties Ac	quired	(A) or	5. Am	ount of	6. Ownership	
			Date (Month/Day/Ye		r) if	xecution Date, any Month/Day/Year)	Code (Transaction Code (Instr. 8)		Disposed Of (D) (Instr. 3, 5)			Bene	rities ficially ed Following	Form: Direct (D) or Indirect (I) (Instr. 4)		
								Code	v	Amount	(4	A) or D)	Price	Repo Trans (Instr	rted action(s) 3 and 4)		(Instr. 4)
Common	Stock, no j	par value per sha	are ⁽¹⁾	06/21	1/2017	\dagger		P		6,380	- `	A	\$4	<u> </u>	583,712	D ⁽²⁾	
Common	Stock, no j	par value per sha	ire ⁽¹⁾	06/21	06/21/2017			P		4,406	6	Α	\$4	1,	023,874	D (3)	
Common Stock, no par value per share ⁽¹⁾ 06				06/21	06/21/2017			P		1,362	2	Α	\$4	. 2	88,114	D ⁽⁴⁾	
Common Stock, no par value per share ⁽¹⁾ 06/22				2/2017			P		4,525	5	Α	\$4	1,	588,237	D ⁽²⁾		
Common Stock, no par value per share ⁽¹⁾ 06/22/				2/2017	/2017		P		2,884		Α	\$4	1,	026,758	D ⁽³⁾		
Common	Stock, no j	par value per sha	are ⁽¹⁾	06/22	2/2017			P		854		Α	\$4	2	88,968	D ⁽⁴⁾	
		Ta					ities Acqui warrants,							Owned	1		
1. Title of	2.	3. Transaction	3A. Deem		4.	uis,	 			sable and	1	e and	-	8. Price of	9. Number o	of 10.	11. Natu
Derivative Security	Conversion or Exercise Price of		Execution if any (Month/Da	·	Transac Code (In			Expiratio (Month/D		Pate Amount of Year) Securitie				Derivative Security	derivative Securities Beneficially	Ownership Form:	Benefic
(Instr. 3)	Derivative Security		(WIOTILITIDA	ly/ real)	8)		Acquired (A) or				Deriv			(Instr. 5)	Owned Following	Direct (D or Indired (I) (Instr.	ct (Instr. 4)
							Disposed of (D)				and 4	4)			Reported Transaction	(s)	
							(Instr. 3, 4 and 5)								(Instr. 4)		
												Amo					
					Code	v		Date Exercisal		Expiration Date	Title	Num of Sha					
1 Name a	nd Address o	f Reporting Person*			- Couc	1	[(A) (B)	<u> </u>	JIC	Dute	Title	Jona					
ı		RS L P/IL															
(Loot)		(First)	/N 4ida	lla)		-											
(Last)	OME ST	(First)	(Mido	iie)													
30TH FI																	
(Street)						-											
	ANCISCO	CA	9410)4													
(City)		(State)	(Zip)														
		f Reporting Person*				\neg											
BIOTE	CHNOL	OGY VALUE	E FUND	L P													
(Last)		(First)	(Mido	lle)													
	OME ST																
30TH FI	_																

(City)	(State)	(Zip)							
1. Name and Address of Reporting Person* <u>BIOTECHNOLOGY VALUE FUND II LP</u>									
(Last) 1 SANSOME ST 30TH FL	(First)	(Middle)							
(Street) SAN FRANCISCO	CA	94104							
(City)	(State)	(Zip)							
1. 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)							
	1. 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)							

Explanation of Responses:

^{1.} This Form 4 is filed jointly by Biotechnology Value Fund, L.P. ("BVF"), Biotechnology Value Fund II, L.P. ("BVF2"), Biotechnology Value Trading Fund OS LP ("Trading Fund OS"), BVF Partners OS Ltd. ("Partners OS"), BVF Partners L.P. ("Partners"), BVF Inc. and Mark N. Lampert (collectively, the "Reporting Persons"). Each of the Reporting Persons is a member of a Section 13(d) group that collectively 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/ 06/23/2017 Mark N. Lampert, President Biotechnology Value Fund, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., 06/23/2017 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., 06/23/2017 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 06/23/2017 general partner, By: /s/ Mark N. Lampert, President Biotechnology Value Trading Fund OS LP, By: BVF Partners L.P., its investment manager, 06/23/2017 BVF Inc., its general partner, By: /s/ Mark N. Lampert, President BVF Inc., By: /s/ Mark N. 06/23/2017 Lampert, President 06/23/2017 /s/ Mark N. Lampert ** 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.