(Last)

1 SANSOME ST 30TH FL

SAN FRANCISCO CA

(First)

(Middle)

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 may continue. See
Instruction 1(h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287
Estimated average burden

	ions may conti tion 1(b).	nue. <i>See</i>		File							ties Exchanç ımpany Act o		f 1934			hour	s per respons	e:	0.5	
		f Reporting Person	*						er or Tra		Symbol	E]			elationshi eck all app Dired	plicable)	ng Person(s) to Is		
(Last) (First) (Middle) 1 SANSOME ST 30TH FL						3. Date of Earliest Transaction (Month/Day/Year) 06/06/2017									Officer (give title Other (specify below) below)					
(Street) SAN FRANCISCO CA 94104				4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	itate)	(Zip)																	
		Tab	le I - No	on-Deriv	ative :	Secu	uritie	s Acc	quired	, Dis	sposed o	f, or E	Benef	iciall	y Own	ed				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day					Execution Date		Date,	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			4 and 5) Secu Bene Own		ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code	v	Amount	(A) (D)	or P	rice		action(s) 3 and 4)			(Instr. 4)	
Common	Stock, no	par value per sha	ıre ⁽¹⁾	06/06	/2017				P		96,736	A	\	\$3.75	1,4	449,048	D ⁽²⁾			
Common	Stock, no	par value per sha	are ⁽¹⁾	06/06	/2017				P		53,260	A	\	\$3.75	9	36,730	D ⁽³⁾			
Common	Stock, no	par value per sha	re ⁽¹⁾	06/06	/2017				P		913	A		\$3.75	2	63,577	D ⁽⁴⁾			
Common	Stock, no	par value per sha	ire ⁽¹⁾	06/07	/2017				P		113,446	A	\$	3.851	2 1,5	562,494	D ⁽²⁾			
Common Stock, no par value per share ⁽¹⁾ 06/07/2				/2017	017		P		73,749	A	\$	3.851	2 1,0	1 1						
Common	Stock, no	par value per sha	are ⁽¹⁾	06/07	/2017				P		20,594	A	\$	3.851	2 2	84,171	D ⁽⁴⁾			
		Т	able II -								osed of, convertib				Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Dee Execution if any (Month/	med	4. Transac Code (In 8)	5. Number		mber ative rities ired osed		Exerci	isable and te	7. Title Amour Securi Underl Deriva	7. Title and Amount of Securities Underlying Derivative Security (Inst		Price of erivative ecurity nstr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	(D)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	Amou or Numb of Share	er						
		Reporting Person	*																	
(Last) 1 SANSO 30TH FI		(First)	(Mi	ddle)																
(Street) SAN FR	ANCISCO	CA	94	104																
(City)		(State)	(Ziţ	D)																
		f Reporting Person		D L P																

(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 BVF INC/IL	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/ 06/08/2017 Mark N. Lampert, President Biotechnology Value Fund, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., 06/08/2017 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., 06/08/2017 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 06/08/2017 general partner, By: /s/ Mark N. Lampert, President Biotechnology Value Trading Fund OS LP, By: BVF Partners L.P., its investment manager, 06/08/2017 BVF Inc., its general partner, By: /s/ Mark N. Lampert, President BVF Inc., By: /s/ Mark N. 06/08/2017 Lampert, President 06/08/2017 /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.