FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287

Check this box if no longer subject to

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

obligati	1 16. Form 4 or ons may contii tion 1(b).			File		ant to Sectio ection 30(h)									II.	per res	oonse:	0.5
				2. Issuer Name and Ticker or Trading Symbol Xenon Pharmaceuticals Inc. [XENE]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner				wner	
(Last) (First) (Middle) 1 SANSOME ST 30TH FL					e of Earliest //2018	of Earliest Transaction (Month/Day/Year) 2018								give title		Other (: below)	specify	
(Street) SAN FRANCISCO CA 94104		4. If A		mendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) Form filed by One Reporting Person X Form filed by More than One Reporting Person						
(City)	(:	State)	(Zip)															
		7	able I - Nor	n-Deriv	ative	Securitie	s Ac	cquired,	Dis	posed o	of, or I	3enet	ficially	Owned				
Date				2. Transa Date (Month/D		Execution if any	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)					5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code	v	Amount	(A) or D)	Price	Transactio (Instr. 3 an				,
Common Shares, no par value per share ⁽¹⁾			03/27/2018						1,338,000		D	(5)	336,468		D ⁽²⁾			
Common Shares, no par value per share(1)			are ⁽¹⁾	03/27/2018						861,000		D	(5)	216,694		D ⁽³⁾		
Common Shares, no par value per share(1)				03/27/2018					238,000		D	(5)	59,464		D ⁽⁴⁾			
			Table II -			ecurities alls, warı								wned				
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/Ye	Code (Instr.		Derivative I		Expiration	6. Date Exercisa Expiration Date (Month/Day/Yea		Securitie		lerlying urity	8. Price of Derivative Security (Instr. 5)	9. Numb derivativ Securitie Benefici Owned Followin Reporte	re es ally ng d	Ownersh S Form: Oly Direct (D) Or Indirect (I) (Instr.	Beneficia Ownersh t (Instr. 4)
				Code	e V	V (A)		Date Exercisal		Expiration Date	Title	Nu	nount or mber of ares		Transaction(s) (Instr. 4)			
Series 1 Preferred Shares	(5)	03/27/2018		J ⁽⁵⁾		1,338,000		(5)		(5)	Commo Shares no par value p share	, er 1,3	338,000	(5)	1,338,000		D ⁽²⁾	
Series 1 Preferred Shares	(5)	03/27/2018		J ⁽⁵⁾		861,000		(5)		(5)	Commo Shares no par value p share	80 er	61,000	(5)	861,000		D ⁽³⁾	
Series 1 Preferred Shares	(5)	03/27/2018		J ⁽⁵⁾		238,000		(5)		(5)	Commo Shares no par value p share	er 2	38,000	(5)	238,0	000	D ⁽⁴⁾	
		f Reporting Person*		,	,			,										•
(Last) 1 SANS 30TH FI		(First)	(Middle)														
(Street)	ANCISCO	CA	94104															

1. Name and Address of Reporting Person^*

BIOTECHNOLOGY VALUE FUND L P

(Zip)

(State)

(Middle) (Last) (First)

1 SANSOME ST

30 TH FL

(Street)

(City)

SAN FRANCISCO	CA	94104							
(City)	(State)	(Zip)							
	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)							
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:

directly by Trading Fund OS.

- 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 owned more than 10% of the Issuer's outstanding Common Shares. Each of the Reporting Persons disclaims beneficial ownership of the securities reported herein except to the extent of his or its pecuniary interest therein.
- 2. Securities owned directly by BVF. As the general partner of BVF, Partners may be deemed to beneficially own the securities owned directly by BVF. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by BVF. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by BVF.
- 3. Securities owned directly by BVF2. As the general partner of BVF2, Partners may be deemed to beneficially own the securities owned directly by BVF2. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by BVF2. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned directly by BVF2.
- 4. Securities owned directly by Trading Fund OS. As the general partner of Trading Fund OS, Partners OS may be deemed to beneficially own the securities 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 securities owned directly by Trading Fund OS. As the investment adviser and general partner of Partners, BVF Inc. may be deemed to beneficially own the securities owned directly by Trading Fund OS. As a director and officer of BVF Inc., Mr. Lampert may be deemed to beneficially own the securities owned
- 5. Pursuant to an agreement between the Issuer and the Reporting Persons, the Reporting Persons agreed to exchange in the aggregate 2,868,000 Common Shares for 2,868,000 shares of Series 1 Preferred Shares ("Series 1 Preferred"). Each share of Series 1 Preferred is convertible into one Common Share without payment of any additional consideration. The Series 1 Preferred may not be converted if, after such conversion, the Reporting Persons would beneficially own, as determined in accordance with Section 13(d) of the Securities Exchange Act of 1934 (the "Exchange Act"), in excess of 9.99% of the number of Common Shares then

BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ 03/29/2018 Mark N. Lampert, President Biotechnology Value Fund, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., 03/29/2018 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., 03/29/2018 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 general 03/29/2018 partner, By: /s/ Mark N. Lampert, President Biotechnology Value Trading Fund OS LP, By: BVF Partners L.P., its investment manager, 03/29/2018 BVF Inc., its general partner, By: /s/ Mark N. Lampert, President BVF Inc., By: /s/ Mark N. 03/29/2018 Lampert, President /s/ Mark N. Lampert 03/29/2018 ** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

^{*} 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).