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## FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

eck this box if no longer subject to ction 16. Form 4 or Form 5 igations may continue. See ruction 1(b)
ruction 1(b).
truction 1(b).

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL				
OMB Number:	3235-0287			

Estimated average burden hours per response: 0.5

1. Name and Address of Reporting Person <sup>*</sup> <u>BVF PARTNERS L P/IL</u>			2. Issuer Name <b>and</b> Ticker or Trading Symbol <u>Xenon Pharmaceuticals Inc.</u> [ XENE ]							eck all ap Dire	plicable) ctor		Owner				
(Last) 1 SANS 30TH FI	OME ST	irst) (	Middle)			e of Earliest Transaction (Month/Day/Year) /2017								Offic	cer (give title w)	Othe belov	r (specify /)
(Street) SAN FRANCISCO CA 94104				4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	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)	(3	· · ·		n-Deriv	ative S	Securiti	es Aco	auired	. Dis	posed o	f. or	Ben	eficial	v Own	ed		
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year		2A. Deemed Execution Date,		3. 4. Secu		4. Securiti	rities Acquired (A) ed Of (D) (Instr. 3, 4		(A) or	5) 5. Am 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 (D	) or )	Price	Repo Trans (Instr	rted action(s) . 3 and 4)		(Instr. 4)
Common	Stock, no j	par value per shar	re <sup>(1)</sup>	08/14/	2017			Р		28,007		A	\$2.703	6 1,	663,039	<b>D</b> <sup>(2)</sup>	
Common	Stock, no j	oar value per shar	re <sup>(1)</sup>	08/14/	2017			Р		13,337		A	\$2.703	6 1,	070,265	D <sup>(3)</sup>	
Common Stock, no par value per share <sup>(1)</sup>			08/15/	2017			Р		11,429			\$2.412	_	674,468	D <sup>(2)</sup>		
			08/15/	2017		Р		7,429	+	A	\$2.412	_	077,694	D <sup>(3)</sup>			
Common	Stock, no j	oar value per shar													97,464	D <sup>(4)</sup>	
		Та								osed of, o onvertib				Owned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deen Executio if any (Month/D	n Date, Code (Instr. Derivative ay/Year) 8) Code (Instr. Code (Instr. Derivative Securites Acquired Code (Instr. Code (Instr. Securit Securites Code (Instr. Code (Instr. Securit Securites Code (Instr. Code (Instr. Securit Securites Code (Instr. Securites Code (Instr. Securites Securites Code (Instr. Securites Code (Instr. Securites Code (Instr. Securites Code (Instr. Securites Securites Code (Instr. Securites Code (Instr. Securites) Code (Instr. Securite		Amount of Securities Underlying Derivative Security (Instr. 3		8. Price of Derivative Security (Instr. 5) Benefi Ownec Follow Report Transa (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	nount mber ares				
		Reporting Person <sup>*</sup>															
(Last) 1 SANS 30TH FI		(First)	(Mid	dle)													
(Street) SAN FR	ANCISCO	СА	941	04		_											
(City)		(State)	(Zip)														
		Reporting Person*	FUNI	<u>) L P</u>		1											
(1.25t)		(Firot)	() 4:4	dia)		-											

(Last)	(First)	(Middle)
1 SANSOME ST		
30TH FL		
-		

94104

(Street)	
SAN FRANCISCO CA	

(City)	(State)	(Zip)			
1. Name and Address of Reporting Person <sup>*</sup> 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 o Biotechnology	f Reporting Person <sup>*</sup> Value Trading Fu	nd OS LP			
(Last)	(First)	(Middle)			
P.O. BOX 309 UGI	LAND HOUSE				
(Street) GRAND CAYMAN	E9	KY1-1104			
(City)	(State)	(Zip)			
1. Name and Address o BVF Partners O					
(Last) P.O. BOX 309 UGI	(First) LAND HOUSE	(Middle)			
(Street) GRAND CAYMAN	E9	KY1-1104			
(City)	(State)	(Zip)			
1. Name and Address o BVF INC/IL	f Reporting Person <sup>*</sup>				
(Last) 1 SANSOME ST 30TH FL	(First)	(Middle)			
(Street) SAN FRANCISCO	СА	94104			
(City)	(State)	(Zip)			
1. Name and Address o <u>LAMPERT MA</u>					
(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.

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	BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	<u>08/16/2017</u>
	Biotechnology Value Fund, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	<u>08/16/2017</u>
	Biotechnology Value Fund II, L.P., By: BVF Partners L.P., its general partner, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	<u>08/16/2017</u>
	BVF Partners OS Ltd., By: BVF Partners L.P., its sole member, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	<u>08/16/2017</u>
	Biotechnology Value Trading Fund OS LP, By: BVF Partners L.P., its investment manager, BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	<u>08/16/2017</u>
	<u>BVF Inc., By: /s/ Mark N.</u> <u>Lampert, President</u>	<u>08/16/2017</u>
	<u>/s/ Mark N. Lampert</u> ** Signature of Reporting Person	<u>08/16/2017</u> 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.