Xenon Pharmaceuticals Inc.
Form 3
September 12, 2016

FORM 3

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

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
Â BVF PARTNERS L P/IL

(Last) (First) (Middle)

ONE SANSOME STREET,Â 30TH FLOOR

(Street)

SAN FRANCISCO,Â CAÂ 94104

(City) (State) (Zip)

2. Date of Event Requiring Statement (Month/Day/Year)
09/08/2016

3. Issuer Name **and** Ticker or Trading Symbol
Xenon Pharmaceuticals Inc. [XENE]

4. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

_____ Director __X__ 10% Owner
_____ Officer _____ Other
(give title below) (specify below)

5. If Amendment, Date 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

Table I - Non-Derivative Securities Beneficially Owned

1.Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock, no par value per share (1)	1,352,312	D (2)	Â
Common Stock, no par value per share (1)	883,470	D (3)	Â
Common Stock, no par value per share (1)	262,664	D (4)	Â

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

SEC 1473 (7-02)

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 control number.

Table II - Derivative Securities Beneficially Owned (*e.g.*, puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying	4. Conversion	5. Ownership	6. Nature of Indirect Beneficial Ownership

		Derivative Security (Instr. 4)		or Exercise Price of Derivative Security	Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	(Instr. 5)
Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BVF PARTNERS L P/IL ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO,Â CAÂ 94104	Â	Â X	Â	Â
BIOTECHNOLOGY VALUE FUND L P ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO,Â CAÂ 94104	Â	Â	Â	See Explanation of Responses
BIOTECHNOLOGY VALUE FUND II LP ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO,Â CAÂ 94104	Â	Â	Â	See Explanation of Responses
Biotechnology Value Trading Fund OS LP P.O. BOX 309 UGLAND HOUSE GRAND CAYMAN,Â E9Â KY1-1104	Â	Â	Â	See Explanation of Responses
BVF Partners OS Ltd. P.O. BOX 309 UGLAND HOUSE GRAND CAYMAN,Â E9Â KY1-1104	Â	Â	Â	See Explanation of Responses
BVF INC/IL ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO,Â CAÂ 94104	Â	Â X	Â	Â
LAMPERT MARK N ONE SANSOME STREET 30TH FLOOR SAN FRANCISCO,Â CAÂ 94104	Â	Â X	Â	Â

Signatures

BVF Partners L.P., By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President	09/12/2016
**Signature of Reporting Person	Date
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	09/12/2016
**Signature of Reporting Person	Date
	09/12/2016

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

**Signature of Reporting Person — Date

BVF Partners OS Ltd., By: BVF Partners L.P., its sole member, By: BVF Inc., its general partner, By: /s/ Mark N. Lampert, President — 09/12/2016

**Signature of Reporting Person — Date

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 — 09/12/2016

**Signature of Reporting Person — Date

BVF Inc., By: /s/ Mark N. Lampert, President — 09/12/2016

**Signature of Reporting Person — Date

/s/ Mark N. Lampert — 09/12/2016

**Signature of Reporting Person — Date

Explanation of Responses:

***** If the form is filed by more than one reporting person, *see* Instruction 5(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).

(1) This Form 3 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.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure.
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