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

SCHEDULE 13G

(Rule 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13d-1(b), (c), AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(b)

(Amendment No.)1

Xenon Pharmaceuticals Inc.
(Name of Issuer)
Common Shares, no par value per share
(Title of Class of Securities)
98420N 10 5
(CUSIP Number)
July 1, 2015
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- o Rule 13d-1(b)
- x Rule 13d-1(c)
- o Rule 13d-1(d)

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, *see* the *Notes*).

The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

	 					
1	NAME OF REPORTING PERSON					
	D' - 1 1 - 17					
2	Biotechnology Value Fund, L.P.					
2	CHECK THE APPE	ROPRIATE BOX IF A MEMBER OF A GROUP	(a) x			
3	SEC USE ONLY		(b) o			
3	SEC USE ONLY					
4	CITIZENSHID OR	PLACE OF ORGANIZATION				
4	CITIZENSIIII OK	TEACE OF ORGANIZATION				
	Delaware					
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING						
PERSON WITH		400,471				
	7	SOLE DISPOSITIVE POWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
	O	SHARED DISPOSITIVE FOWER				
		400,471				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	400,471					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	2.00/					
10	2.8%	UNIC DEDCOM				
12	TYPE OF REPORT	ING PERSON				
	PN					
	1.11					

1	NAME OF REPO	IAME OF REPORTING PERSON		
	Biotechnology V	√alue Fund II, L.P.		
2		PROPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o	
3	SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	Delaware			
NUMBER OF SHARES	5	SOLE VOTING POWER		
BENEFICIALLY		0 shares		
OWNED BY EACH REPORTING	6	SHARED VOTING POWER		
PERSON WITH		229,601		
	7	SOLE DISPOSITIVE POWER		
		0 shares		
	8	SHARED DISPOSITIVE POWER		
		229,601		
9	·			
	229,601			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
	1.6%			
12	TYPE OF REPOR	TING PERSON		
	PN			

	NAME OF BEDORE	INC DEDCOM			
1	NAME OF REPORTING PERSON				
	I	C			
2	Investment 10, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) 8				
2					
3	SEC USE ONLY		(b) o		
3	SEC USE ONLY				
4	CITIZENSHIP OR P	LACE OF ORGANIZATION			
7	CITIZENSIIII OKT	ENGL OF OROTHIEMHOR			
	Illinois				
NUMBER OF	5	SOLE VOTING POWER			
SHARES					
BENEFICIALLY		0 shares			
OWNED BY EACH	6	SHARED VOTING POWER			
REPORTING					
PERSON WITH		73,793			
	7	SOLE DISPOSITIVE POWER			
	_	0 shares			
	8	SHARED DISPOSITIVE POWER			
		73.793			
9	ACCDECATE AMO	UNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
3	AGGREGATE AMO	ONT DENETICIALLY OWNED BY EACH REPORTING PERSON			
	73,793				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
	GILLER DOTTE THE REGILLER HILLOURI BY NOW (b) ENGLODED CERTIFIC OFFICE CERTIFICE				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	Less than 1%				
12	TYPE OF REPORTI	NG PERSON			
	00				

1	NAME OF REPORTING PERSON					
	MSI BVF SPV, LLC					
2		CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x (b) o				
3	SEC USE ONLY					
4	CITIZENSHIP OR PI	ACE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
REPORTING PERSON WITH	117,399					
	7 SOLE DISPOSITIVE POWER					
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		117,399				
9	AGGREGATE AMOU	JNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	117,399					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	Less than 1%					
12	TYPE OF REPORTIN	IG PERSON				
	00					
	- 50					

	821,264	THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
		821,264		
	8	SHARED DISPOSITIVE POWER		
		0 shares		
	7	SOLE DISPOSITIVE POWER		
PERSON WITH		821,264		
OWNED BY EACH REPORTING	6	SHARED VOTING POWER		
SHARES BENEFICIALLY		0 shares		
NUMBER OF	5	SOLE VOTING POWER		
	Delaware			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
3	SEC USE ONLY			
2	CHECK THE AP	PROPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o	
2	BVF Partners L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)			
1	NAME OF REPORTING PERSON			

	NAME OF BEROR	TIME DEDGOM		
1	NAME OF REPORTING PERSON			
	DVE In a			
2	BVF Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a):			
2	CHECK THE APPR	COPRIATE BOX IF A MEMBER OF A GROUP	(a) x (b) o	
3	SEC USE ONLY		(0) 0	
3	SEC USE ONLY			
4	CITIZENSHIP OR	PLACE OF ORGANIZATION		
7	CITIZENSIIII OK	TENCE OF ORGANIZATION		
	Delaware			
NUMBER OF	5	SOLE VOTING POWER		
SHARES				
BENEFICIALLY		0 shares		
OWNED BY EACH	6	SHARED VOTING POWER		
REPORTING				
PERSON WITH		821,264		
	7	SOLE DISPOSITIVE POWER		
	_	0 shares		
	8	SHARED DISPOSITIVE POWER		
		821,264		
9	ACCDECATE AM	OUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
9	AGGREGATE AMI	OUNT DENEFICIALLY OWNED BY EACH REPORTING PERSON		
	821,264			
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES			
-*	GILLER DOTTE THE PRODUCTION OF ENGLODED CERTIFIC OF THE CO			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)			
		• •		
	5.8%			
12	TYPE OF REPORT	ING PERSON		
	CO			

1	NAME OF REPOR	RTING PERSON				
-	TWINE OF TELEGOTY					
	Mark N. Lamper	t				
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x					
		(b) o				
3	SEC USE ONLY					
4	CITIZENSHIP OR	PLACE OF ORGANIZATION				
7	CITIZENSIIII OK	TEMOL OF OROMINEMION				
	United States					
NUMBER OF	5	SOLE VOTING POWER				
SHARES						
BENEFICIALLY		0 shares				
OWNED BY EACH	6	SHARED VOTING POWER				
PERSON WITH	EPORTING RSON WITH 821,264					
TERSON WITH	7	SOLE DISPOSITIVE POWER				
	,	SOLL DISTOSTIVE TOWER				
		0 shares				
	8	SHARED DISPOSITIVE POWER				
		204.264				
9	ACCDECATE AM	821,264 IOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
9	AGGREGATE AIV	IOUNI DENEFICIALLI OWNED DI EACH REPORTING PERSON				
	821,264					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	5.8%					
12	TYPE OF REPORT	TING PERSON				
12	I I I L OI KLI OK	IIIO I LITOON				
	IN					

Item 1(a). Name of Issuer:

Xenon Pharmaceuticals Inc., a British Columbia corporation (the "Issuer").

Item 1(b). Address of Issuer's Principal Executive Offices:

200-3650 Gilmore Way Burnaby, British Columbia

Canada V5G 4W8

Item 2(a). Name of Person Filing

Item 2(b). Address of Principal Business Office or, if None, Residence

Item 2(c). Citizenship

Biotechnology Value Fund, L.P. ("BVF")

1 Sansome Street, 30th Floor San Francisco, California 94104

Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2")

1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: Delaware

Investment 10, L.L.C. ("ILL10") 900 North Michigan Avenue, Suite 1100 Chicago, Illinois 60611 Citizenship: Illinois

MSI BVF SPV, LLC ("MSI") c/o Magnitude Capital, LLC 601 Lexington Avenue, 59th Floor New York, NY 10022 Citizenship: Delaware

BVF Partners L.P. ("Partners") 1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: Delaware

BVF Inc.

1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert") 1 Sansome Street, 30th Floor San Francisco, California 94104 Citizenship: United States

Each of the foregoing is referred to as a "Reporting Person" and collectively as the "Reporting Persons."

Item 2(d). Title of Class of Securities:

Common Shares, no par value per share (the "Common Stock")

Item 2(e). CUSIP Number:

98420N 105

Item 3. If This Statement is Filed Pursuant to Rule 13d-1(b), or 13d-2(b) or (c), Check Whether the Person Filing is a:

- /x/ Not applicable.
- (a) // Broker or dealer registered under Section 15 of the Exchange Act.
- (b) // Bank as defined in Section 3(a)(6) of the Exchange Act.
- (c) // Insurance company as defined in Section 3(a)(19) of the Exchange Act.
- (d) // Investment company registered under Section 8 of the Investment Company Act.
- (e) // An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E).
- (f) // An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F).
- (g) // A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G).
- (h) // A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) // A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act.
- (j) // Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
- (k) // Group, in accordance with Rule 240.13d-1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with Rule 240.13d-1(b)(1)(ii)(J), please specify the type of institution: _____

Item 4. Ownership

(a) Amount beneficially owned:

As of the close of business on July 10, 2015 (i) BVF beneficially owned 400,471 shares of Common Stock, (ii) BVF2 beneficially owned 229,601 shares of Common Stock, (iii) ILL10 beneficially owned 73,793 shares of Common Stock, and (iv) MSI beneficially owned 117,399 shares of Common Stock.

Partners, as the general partner of BVF and BVF2 and the investment adviser of ILL10 and MSI may be deemed to beneficially own 821,264 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, ILL10 and MSI.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 821,264 shares of Common Stock beneficially owned by Partners.

Mr. Lampert, as a director and officer of BVF Inc., may be deemed to beneficially own the 821,264 shares of Common Stock beneficially owned by BVF Inc.

The foregoing should not be construed in and of itself as an admission by any Reporting Person as to beneficial ownership of any shares of Common Stock owned by another Reporting Person. Each of Partners, BVF Inc. and Mr. Lampert disclaims beneficial ownership of the shares of Common Stock beneficially owned by BVF, BVF2, ILL10 and MSI and the filing of this statement shall not be construed as an admission that any such person or entity is the beneficial owner of any such securities.

(b) Percent of class:

The following percentages are based on 14,228,536 shares of Common Stock outstanding as of May 11, 2015, as disclosed in the Issuer's Quarterly Report filed on Form 10-Q with the Securities and Exchange Commission on May 12, 2015.

As of the close of business on July 10, 2015, (i) BVF beneficially owned approximately 2.8% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 1.6% of the outstanding shares of Common Stock, (iii) ILL10 beneficially owned less than 1% of the outstanding shares of Common Stock, (iv) MSI beneficially owned less than 1% of the outstanding shares of Common Stock and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 5.8% of the outstanding shares of Common Stock.

- (c) Number of shares as to which such person has:
- (i) Sole power to vote or to direct the vote

See Cover Pages Items 5-9.

(ii) Shared power to vote or to direct the vote

See Cover Pages Items 5-9.

(iii) Sole power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

(iv) Shared power to dispose or to direct the disposition of

See Cover Pages Items 5-9.

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [].

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Not Applicable.

Item 7. Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent Holding Company or

Control Person.

Not Applicable.

Item 8. Identification and Classification of Members of the Group.

See Exhibit 99.1.

Item 9. Notice of Dissolution of Group.

Not Applicable.

Item 10. Certifications.

By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of his knowledge and belief, each of the undersigned certifies that the information set forth in this statement is true, complete and correct.

Dated: July 10, 2015

By:

By:

By:

BIOTECHNOLOGY VALUE FUND, L.P.

BVF Partners L.P., its general partner

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

INVESTMENT 10, L.L.C.

By: BVF Partners L.P., its investment adviser

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BIOTECHNOLOGY VALUE FUND II, L.P.

By: BVF Partners L.P., its general partner

BVF Inc., its general partner

/s/ Mark N. Lampert Mark N. Lampert

President

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert

President

MSI BVF SPV, LLC

By: BVF Partners L.P., its investment adviser

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert President

BVF INC.

BVF PARTNERS L.P. By: /s/ Mark N. Lampert

Mark N. Lampert

President

/s/ Mark N. Lampert

MARK N. LAMPERT

Joint Filing Agreement

The undersigned hereby agree that the Statement on Schedule 13G dated July 10, 2015 with respect to the shares of Common Shares of Xenon Pharmaceuticals Inc., and any further amendments thereto executed by each and any of the undersigned shall be filed on behalf of each of the undersigned pursuant to and in accordance with the provisions of Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended.

Dated: July 10, 2015 BIOTECHNOLOGY VALUE FUND, L.P. INVESTMENT 10, L.L.C. By: BVF Partners L.P., its general partner By: BVF Partners L.P., its investment adviser By: BVF Inc., its general partner By: BVF Inc., its general partner By: /s/ Mark N. Lampert By: /s/ Mark N. Lampert Mark N. Lampert Mark N. Lampert President President BIOTECHNOLOGY VALUE FUND II, L.P. MSI BVF SPV, LLC By: BVF Partners L.P., its general partner By: BVF Partners L.P., its investment adviser By: BVF Inc., its general partner By: BVF Inc., its general partner /s/ Mark N. Lampert By: By: /s/ Mark N. Lampert Mark N. Lampert Mark N. Lampert President President BVF INC. BVF PARTNERS L.P. By: /s/ Mark N. Lampert Mark N. Lampert By: BVF Inc., its general partner President By: /s/ Mark N. Lampert

/s/ Mark N. Lampert
MARK N. LAMPERT

Mark N. Lampert

President