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

	OncoGenex Pharmaceuticals, Inc.
	(Name of Issuer)
	Common Stock, par value \$0.001 per share
,	(Title of Class of Securities)
	68230A106
	(CUSIP Number)
	December 3, 2014
	(Date of Event Which Requires Filing of this Statement)
Check the app	propriate box to designate the rule pursuant to which this Schedule is filed:
	Rule 13d-1(b)
□	D.J. 123 1(A)
X	Rule 13d-1(c)
	Rule 13d-1(d)
	der 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 co	ontaining information which would alter the disclosures provided in a prior cover page.
Tł	ne 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
	nerwise 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).

1	NAME OF REPORTING PERSON				
	7. I. I. 2				
	Biotechnology Value				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) 🗵		
2	CECTICE ONLY		(b) 🗆		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	OTTELLIGIE ORTER				
	Delaware				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY					
OWNED BY EACH REPORTING PERSON		0 shares			
WITH	6	SHARED VOTING POWER			
***************************************		633,628			
	7 SOLE DISPOSITIVE POWER				
	0 shares				
	8	SHARED DISPOSITIVE POWER			
	633,628				
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	633,628				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □				
11	DEDCENT OF CLASS DEDDESCRITED DV AMOUNT IN DOW (0)				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	2.98%				
12	TYPE OF REPORTING	PERSON			
	PN				

1	NAME OF REPORTING PERSON				
	Biotechnology Value Fund II, L.P.				
2		RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □		
3	SEC USE ONLY		. (:/		
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	Delaware				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY OWNED BY EACH		0 shares			
REPORTING PERSON WITH	6 SHARED VOTING POWER				
		327,362			
	7 SOLE DISPOSITIVE POWER				
		0 shares			
	8	SHARED DISPOSITIVE POWER			
	327,362				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	327,362				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES □				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	1.54%				
12	TYPE OF REPORTING PERSON				
	PN				

1	NAME OF REPORTING PERSON				
	Investment 10, L.L.C.				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	Illinois				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY OWNED BY EACH		0 shares			
REPORTING PERSON	6	SHARED VOTING POWER			
WITH	O	SHARED VOINGTOWER			
		175,690			
	7	7 SOLE DISPOSITIVE POWER			
	0 shares				
	8 SHARED DISPOSITIVE POWER				
	175,690				
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	175,690				
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 REPORTING PERSON				
12	TITE OF ICE ORTHOTEROOT				
	00				

1	NAME OF REPORTING PERSON					
	MSI BVF SPV, LLC					
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION				
	Delaware					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY OWNED BY EACH		0 shares				
REPORTING PERSON	6	SHARED VOTING POWER				
WITH		221.020				
	7	231,820				
	7 SOLE DISPOSITIVE POWER					
	0 shares					
	8	SHARED DISPOSITIVE POWER				
	231,820					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	231.820					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	1.09%					
12	TYPE OF REPORTING PERSON					
	00					

1	NAME OF REPORTING PERSON				
	BVF Partners L.P.				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	Delaware				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY OWNED BY EACH		0 shares			
REPORTING PERSON WITH	6 SHARED VOTING POWER				
		1,368,500			
	7 SOLE DISPOSITIVE POWER				
	0 shares				
	8 SHARED DISPOSITIVE POWER				
	1,368,500				
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	1,368,500				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	6.43%				
12	TYPE OF REPORTING PERSON				
	PN, IA				

1	NAME OF REPORTING PERSON				
	BVF Inc.				
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION			
	Delaware				
NUMBER OF SHARES	5	SOLE VOTING POWER			
BENEFICIALLY					
OWNED BY EACH REPORTING PERSON		0 shares			
WITH	6	SHARED VOTING POWER			
		1,368,500			
	7 SOLE DISPOSITIVE POWER				
	0 shares				
	8	SHARED DISPOSITIVE POWER			
	1,368,500				
9	AGGREGATE AMOUN	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	1 269 500	1 2 (0 5 0 0			
10	1,368,500 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES				
10	CHECK DOA IT THE AUGREGATE AMOUNT IN KOW (9) EACLUDES CERTAIN SHAKES				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	· · ·				
	6.43%				
12	TYPE OF REPORTING PERSON				
	СО				

1	NAME OF REPORTING PERSON					
	Mark N. Lampert					
2	CHECK THE APPROP	RIATE BOX IF A MEMBER OF A GROUP	(a) ⊠ (b) □			
3	SEC USE ONLY					
4	CITIZENSHIP OR PLA	CE OF ORGANIZATION				
	United States					
NUMBER OF SHARES	5	SOLE VOTING POWER				
BENEFICIALLY OWNED BY EACH		0 shares				
REPORTING PERSON WITH	6 SHARED VOTING POWER					
		1,368,500				
	7	7 SOLE DISPOSITIVE POWER				
		0 shares				
	8	8 SHARED DISPOSITIVE POWER				
	1,368,500					
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
	1.368,500					
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES					
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
	6.43%					
12	TYPE OF REPORTING PERSON					
	IN .					
10	0 shares 8 SHARED DISPOSITIVE POWER 1,368,500 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,368,500 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 6.43%					

Item 1(a). Name of Issuer:

OncoGenex Pharmaceuticals, Inc. a Delaware corporation (the "Issuer").

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

 $1522\ 217^{th}\ Place\ SE$

Suite 100

Bothell, Washington 98021

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

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 Stock, par value \$0.001 per share (the "Common Stock")

Item 2(e). CUSIP Number:

68230A106

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 December 10, 2014, (i) BVF beneficially owned 633,628 shares of Common Stock, (ii) BVF2 beneficially owned 327,362 shares of Common Stock, (iii) ILL10 beneficially owned 175,690 shares of Common Stock, and (iv) MSI beneficially owned 231,820 shares of Common Stock.

Partners, as the general partner of BVF and BVF2, and the investment adviser of each of ILL10 and MSI, may be deemed to beneficially own the 1,368,500 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 1,368,500 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 1,368,500 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 21,280,867 shares of Common Stock, which is the total number of Shares outstanding as of October 30, 2014 as reported in the Issuer's Quarterly Report on Form 10-Q, filed with the Securities and Exchange Commission on October 30, 2014.

As of the close of business on December 10, 2014 (i) BVF beneficially owned approximately 2.98% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 1.54% of the outstanding shares of Common Stock, (iii) ILL10 beneficially owned approximately less than 1% of the outstanding shares of Common Stock, (iv) MSI beneficially owned approximately 1.09% of the outstanding shares of Common Stock, and (v) each of Partners, BVF Inc. and Mr. Lampert may be deemed to beneficially own approximately 6.43% 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.

Not Applicable.

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

Partners, BVF Inc. and Mr. Lampert share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, BVF2, ILL10

and MSI.

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: December 10, 2014

BIOTECHNOLOGY VALUE FUND, L.P.

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

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert

Mark N. Lampert President

 ${\bf BIOTECHNOLOGY\ VALUE\ FUND\ II,\ L.P.}$

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

By: /s/ Mark N. Lampert

Mark N. Lampert

President

BVF PARTNERS L.P.

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

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.

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 December 10, 2014 with respect to the shares of Common Stock of OncoGenex 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: December 10, 2014

By:

/s/ Mark N. Lampert Mark N. Lampert

President

BIOTECHNOLOGY VALUE FUND, L.P.		INVES	INVESTMENT 10, L.L.C.		
By: By:	BVF Partners L.P., its general partner BVF Inc., its general partner	By: By:	BVF Partners L.P., its investment adviser BVF Inc., its general partner		
Ву:	/s/ Mark N. Lampert Mark N. Lampert President	Ву:	/s/ Mark N. Lampert Mark N. Lampert President		
BIOTECHNOLOGY VALUE FUND II, L.P.		MSI B	MSI BVF SPV, LLC		
By: By:	BVF Partners L.P., its general partner BVF Inc., its general partner	By: By:	BVF Partners L.P., its investment adviser BVF Inc., its general partner		
By:	/s/ Mark N. Lampert	By:	/s/ Mark N. Lampert		
	Mark N. Lampert President		Mark N. Lampert President		
		BVF IN	NC.		
BVF PARTNERS L.P.		By:	/s/ Mark N. Lampert		
By:	BVF Inc., its general partner		Mark N. Lampert President		

/s/ Mark N. Lampert

MARK N. LAMPERT