

REPLIGEN CORP  
Form SC 13G/A  
February 12, 2010

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. 6)1

Repligen Corporation  
(Name of Issuer)

Common Stock, par value \$0.01 per share  
(Title of Class of Securities)

759916109  
(CUSIP Number)

December 31, 2009  
(Date of Event Which Requires Filing of this Statement)

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

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

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1 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.

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).

CUSIP NO. 759916109

1 NAME OF REPORTING PERSON

Biotechnology Value Fund, L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		0 shares
	6	SHARED VOTING POWER
		508,750
	7	SOLE DISPOSITIVE POWER
		0 shares
	8	SHARED DISPOSITIVE POWER
		508,750

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

508,750

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

1.7%

12 TYPE OF REPORTING PERSON

PN

CUSIP NO. 759916109

1 NAME OF REPORTING PERSON

Biotechnology Value Fund II, L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		0 shares
	6	SHARED VOTING POWER
		314,400
	7	SOLE DISPOSITIVE POWER
		0 shares
	8	SHARED DISPOSITIVE POWER
		314,400

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

314,400

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

1.0%

12 TYPE OF REPORTING PERSON

PN

CUSIP NO. 759916109

1 NAME OF REPORTING PERSON

BVF Investments, L.L.C.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x  
GROUP (b) o

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF 5 SOLE VOTING POWER  
SHARES

BENEFICIALLY 0 shares

OWNED BY 6 SHARED VOTING POWER  
EACH

REPORTING 1,092,700  
PERSON WITH 7 SOLE DISPOSITIVE POWER

8  
0 shares  
SHARED DISPOSITIVE POWER

9 1,092,700  
AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

10 1,092,700  
CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) ..  
EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

12 3.6%  
TYPE OF REPORTING PERSON

OO

CUSIP NO. 759916109

1 NAME OF REPORTING PERSON

Investment 10, L.L.C.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x  
GROUP (b) o

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Illinois

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		0 shares
	6	SHARED VOTING POWER
		123,100
	7	SOLE DISPOSITIVE POWER
		0 shares
	8	SHARED DISPOSITIVE POWER

123,100

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

123,100

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

OO

CUSIP NO. 759916109

1 NAME OF REPORTING PERSON

BVF Partners L.P.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		0 shares
	6	SHARED VOTING POWER
		2,038,950
	7	SOLE DISPOSITIVE POWER
		0 shares
	8	SHARED DISPOSITIVE POWER
		2,038,950

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,038,950

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.6%

12 TYPE OF REPORTING PERSON

PN, IA

CUSIP NO. 759916109

1 NAME OF REPORTING PERSON

BVF Inc.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x  
GROUP (b) o

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF	5	SOLE VOTING POWER
SHARES		
BENEFICIALLY		0 shares
OWNED BY	6	SHARED VOTING POWER
EACH		
REPORTING		2,038,950
PERSON WITH	7	SOLE DISPOSITIVE POWER
	8	0 shares
		SHARED DISPOSITIVE POWER

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,038,950

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) ..  
EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.6%

12 TYPE OF REPORTING PERSON

CO

CUSIP NO. 759916109

1 NAME OF REPORTING PERSON

Mark N. Lampert

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a)  (b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

United States

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER
		0 shares
	6	SHARED VOTING POWER
		2,038,950
	7	SOLE DISPOSITIVE POWER
		0 shares
	8	SHARED DISPOSITIVE POWER

2,038,950

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,038,950

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

6.6%

12 TYPE OF REPORTING PERSON

IN

CUSIP NO. 759916109

Item 1(a). Name of Issuer:

Repligen Corporation, a Delaware corporation (the "Issuer").

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

41 Seyon Street  
Bldg. 1, Suite 100  
Waltham, MA 02453

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")  
900 North Michigan Avenue, Suite 1100  
Chicago, Illinois 60611  
Citizenship: Delaware

Biotechnology Value Fund II, L.P. ("BVF2")  
900 North Michigan Avenue, Suite 1100  
Chicago, Illinois 60611  
Citizenship: Delaware

BVF Investments, L.L.C. ("BVLLC")  
900 North Michigan Avenue, Suite 1100  
Chicago, Illinois 60611  
Citizenship: Delaware

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

BVF Partners L.P. ("Partners")  
900 North Michigan Avenue, Suite 1100  
Chicago, Illinois 60611  
Citizenship: Delaware

BVF Inc.  
900 North Michigan Avenue, Suite 1100  
Chicago, Illinois 60611  
Citizenship: Delaware

Mark N. Lampert ("Mr. Lampert")  
900 North Michigan Avenue, Suite 1100  
Chicago, Illinois 60611  
Citizenship: United States

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

CUSIP NO. 759916109

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

Common Stock, par value \$0.01 per share (the "Common Stock")

Item 2(e). CUSIP Number:

759916109

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 31, 2009, (i) BVF beneficially owned 508,750 shares of Common Stock, (ii) BVF2 beneficially owned 314,400 shares of Common Stock, (iii) BVLLC beneficially owned 1,092,700 shares of Common Stock and (iv) ILL10 beneficially owned 123,100 shares of Common Stock.

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Partners, as the general partner of BVF and BVF2, the manager of BVLLC and the investment adviser of ILL10, may be deemed to beneficially own the 2,038,950 shares of Common Stock beneficially owned in the aggregate by BVF, BVF2, BVLLC and ILL10.

BVF Inc., as the general partner of Partners, may be deemed to beneficially own the 2,038,950 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 2,038,950 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, BVLLC and ILL10 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:

Based on 30,761,807 shares of Common Stock outstanding as of January 26, 2010, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on February 4, 2010. As of the close of business on December 31, 2009, (i) BVF beneficially owned approximately 1.7% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned approximately 1.0% of the outstanding shares of Common Stock, (iii) BVLLC beneficially owned approximately 3.6% of the outstanding shares of Common Stock, (iv) ILL10 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 6.6% 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.

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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.

Pursuant to the operating agreement of BVLLC, Partners is authorized, among other things, to invest the contributed capital of Samana Capital, L.P., the majority member of BVLLC, in the shares of Common Stock and other securities of the Issuer and to vote, exercise or convert and dispose of each security, and is entitled to receive fees based on assets under management and, subject to certain exceptions, allocations based on realized and unrealized gains on such assets.

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

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 A to Amendment No. 5 to the Schedule 13G, filed May 20, 2009.

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.

12

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CUSIP NO. 759916109

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: February 12, 2010

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

INVESTMENT 10, L.L.C.

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

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

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

BVF INVESTMENTS, L.L.C.

By: BVF Partners L.P., its manager

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

