REPLIGEN CORP Form SC 13G/A February 14, 2011

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. 7)1

Repligen Corporation (Name of Issuer)

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

759916109 (CUSIP Number)

December 31, 2010 (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).

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.

CUSIP NO. 759916109

NAME OF REPORTING PERSON

1	NAME OF KE	FORTING PERS	ON	
2	Biotechnology Value Fund, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x			
3	GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	•	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	455,335 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	455,335 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREC ERTAIN SHARE	GATE AMOUNT IN ROW (9)	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	1.5% TYPE OF REP	ORTING PERSC	DN	
	PN			
2				

CUSIP NO. 759916109

NAME OF REPORTING PERSON

1	TVINL OF KE	ORTHOTERS		
2	Biotechnology Value Fund II, L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x			
3	GROUP SEC USE ONL	ĽΥ		(b) o
4	CITIZENSHIP	OR PLACE OF 0	ORGANIZATION	
	Delaware			
NUMBER OF SHARES		5	SOLE VOTING POWER	
BENEFICIALLY	7		0 shares	
OWNED BY		6	SHARED VOTING POWER	
EACH REPORTING			278,400	
PERSON WITH		7	SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	D
		0	SHAKED DISPOSITIVE FOWE	K
			278,400	
9	AGGREGATE	AMOUNT BEN	EFICIALLY OWNED BY EACH	REPORTING PERSON
	278,400			
10	CHECK BOX		GATE AMOUNT IN ROW (9)	•
	EXCLUDES C	ERTAIN SHARE	ES	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
				(-)
12	Less than 1%	ODTING DEDGO	NN .	
12	TYPE OF REP	ORTING PERSC	JIN	
	PN			
3				
-				

CUSIP NO. 759916109

1	NAME OF REPO	ORTING PERSO	ON	
2	BVF Investments, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x (b) o			
3	SEC USE ONLY			
4	CITIZENSHIP O	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Delaware			
NUMBER OF SHARES	5		SOLE VOTING POWER	
BENEFICIALLY	-		0 shares	
OWNED BY	6		SHARED VOTING POWER	
EACH			0.66.700	
REPORTING PERSON WITH	7		966,700 SOLE DISPOSITIVE POWER	
rekson with	/		SOLE DISPOSITIVE FOWER	
			0 shares	
	8		SHARED DISPOSITIVE POWE	R
			066.700	
9	AGGREGATE A		966,700 EFICIALLY OWNED BY EACH	REPORTING PERSON
,	AGGREGATE A	IMOUNT BENT	ETCIALLI OWNED DI LACII	REFORTING LEASON
	966,700			
10			GATE AMOUNT IN ROW (9)	
	EXCLUDES CEI	RTAIN SHARE	SS	
11	DEDCENT OF C	I ACC DEDDEC	ENTED BY AMOUNT IN ROW	(0)
11	TERCENT OF C	LASS REI RES	ENTED BY AMOUNT IN ROW	(9)
	3.1%			
12	TYPE OF REPOR	RTING PERSO	N	
	00			
	OO			
1				

CUSIP NO. 759916109

1	NAME OF REPORTING PERSON			
2 3	Investment 10, L.L.C. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	Illinois	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	,	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	110,100 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	110,100 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREG ERTAIN SHARI	GATE AMOUNT IN ROW (9)	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	Less than 1% TYPE OF REP	ORTING PERSO	ON	
	OO			
5				

CUSIP NO. 759916109

NAME OF REPORTING PERSON

_				
2	BVF Partners L.P. CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x (b) a			
3	GROUP (b) o SEC USE ONLY			(0) 0
4	CITIZENSHIP	OR PLACE OF	ORGANIZATION	
NUMBER OF SHARES	Delaware	5	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	•	6	0 shares SHARED VOTING POWER	
REPORTING PERSON WITH		7	1,810,535 SOLE DISPOSITIVE POWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	1,810,535 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREO ERTAIN SHARE	GATE AMOUNT IN ROW (9)	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	5.9% TYPE OF REP	ORTING PERSO	DN	
	PN, IA			
6				

CUSIP NO. 759916109

NAME OF REPORTING PERSON

1	TO INDICATE OF THE	ORTHVOTERS		
2	BVF Inc. CHECK THE APPROPRIATE BOX IF A MEMBER OF A (a) x			
3		GROUP (b) o SEC USE ONLY		
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF	Delaware	<i>-</i>	COLE VOTING DOWER	
NUMBER OF SHARES		5	SOLE VOTING POWER	
BENEFICIALLY	•		0 shares	
OWNED BY		6	SHARED VOTING POWER	
EACH REPORTING			1,810,535	
PERSON WITH		7	SOLE DISPOSITIVE POWER	
			0.1	
		8	0 shares SHARED DISPOSITIVE POWE	R
			4 0 4 0 4 0 4 0	
9	AGGREGATE	AMOUNT BEN	1,810,535 EFICIALLY OWNED BY EACH	REPORTING PERSON
	1,810,535			
10	·	IF THE AGGRE	GATE AMOUNT IN ROW (9)	•
	EXCLUDES C	ERTAIN SHARI	ES	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
	5.9%			
12		ORTING PERSO	ON	
	СО			
7				

CUSIP NO. 759916109

1

NAME OF REPORTING PERSON

1	THINE OF REA	ORTHVOTERS		
2	Mark N. Lampert CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) x (b) o			
3	SEC USE ONL	Υ		(0) 0
4	CITIZENSHIP OR PLACE OF ORGANIZATION			
	United States			
NUMBER OF SHARES		5	SOLE VOTING POWER	
BENEFICIALLY			0 shares	
OWNED BY EACH		6	SHARED VOTING POWER	
REPORTING			1,810,535	
PERSON WITH		7	SOLE DISPOSITIVE POWER	
rekson with		1	SOLE DISPOSITIVE FOWER	
		8	0 shares SHARED DISPOSITIVE POWE	R
9	AGGREGATE	AMOUNT BEN	1,810,535 EFICIALLY OWNED BY EACH	REPORTING PERSON
10		IF THE AGGREG ERTAIN SHARI	GATE AMOUNT IN ROW (9)	
11	PERCENT OF	CLASS REPRES	SENTED BY AMOUNT IN ROW	(9)
12	5.9% TYPE OF REP	ORTING PERSO	DN	
	IN			
8				

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.	. 759916	109		
Item 2(d).			Title of Class	of Securities:
Common St	tock, par	value \$0.01 per	share (the "Common Stock"	")
Item 2(e).			CUSIP	Number:
759916109				
Item 3. If The	his Stater	ment is Filed Pur	rsuant to Rule 13d-1(b), or 1	3d-2(b) or (c), Check Whether the Person Filing is a:
			/x/	Not applicable.
	(a)	//	Broker or dealer registere	ed under Section 15 of the Exchange Act.
	(b)	//	Bank as defined i	n Section 3(a)(6) of the Exchange Act.
(0	c)	// In	nsurance company as define	d in Section 3(a)(19) of the Exchange Act.
(d)	//	Investme	ent company registered und	er Section 8 of the Investment Company Act.
	(e)	//	An investment adviser in	accordance with Rule 13d-1(b)(1)(ii)(E).
(f)	//	An employee b	enefit plan or endowment fu	and in accordance with Rule 13d-1(b)(1)(ii)(F).
(g)	//	A parent holdi	ng company or control pers	on in accordance with Rule 13d-1(b)(1)(ii)(G).
(h)	//	A savings as	sociation as defined in Secti	on 3(b) of the Federal Deposit Insurance Act.
	_	that is exclude mpany Act.	d from the definition of an	n investment company under Section 3(c)(14) of the
	(j)	//	Group, in ac	cordance with Rule 13d-1(b)(1)(ii)(J).
	_		ale 240.13d-1(b)(1)(ii)(K). ease specify the type of inst	If filing as a non-U.S. institution in accordance with itution:
Item 4.			Owner	ship
		(a)	An	nount beneficially owned:
As of the cl	ose of bu	isiness on Decei	mber 31, 2010, (i) BVF ben	eficially owned 455,335 shares of Common Stock, (ii

BVF2 beneficially owned 278,400 shares of Common Stock, (iii) BVLLC beneficially owned 966,700 shares of Common Stock and (iv) ILL10 beneficially owned 110,100 shares of Common Stock.

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 1,810,535 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 1,810,535 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 1,810,535 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 30,787,307 shares of Common Stock outstanding as of October 26, 2010, as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission ("SEC") on November 2, 2010. As of the close of business on December 31, 2010, (i) BVF beneficially owned approximately 1.5% of the outstanding shares of Common Stock, (ii) BVF2 beneficially owned less than 1% of the outstanding shares of Common Stock, (iv) ILL10 beneficially owned less than 1% 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 5.9% 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 Identification and Classification of the Subsidiary That Acquired the Security Being Reported on by the Parent 7. 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 with the SEC on 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.

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 14, 2011

BIOTECHNOLOGY VALUE FUND, L.P. INVESTMENT 10, L.L.C.

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

partner manager

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. BVF PARTNERS L.P.

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

partner

By: BVF Inc., its general partner By: /s/ Mark N. Lampert

Mark N. Lampert

By: /s/ Mark N. Lampert President

Mark N. Lampert

President

BVF INC.

BVF INVESTMENTS, L.L.C. By: /s/ Mark N. Lampert

Mark N. Lampert

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

By: BVF Inc., its general partner

By: /s/ Mark N. Lampert /s/ Mark N. Lampert

Mark N. Lampert MARK N. LAMPERT

President