# SECURITIES AND EXCHANGE COMMISSION Washington, DC 20549

# SCHEDULE 13G (Bule 13d-102)

# (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 13d-2(b) (Amendment No. 5)\*

**Repligen Corporation** 

(Name of Issuer)

**Common Stock** 

(Title of Class of Securities)

759916 10 9

(CUSIP Number)

September 17, 2003

(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 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. 759916 10 9

**13G** 

Page 2 of 11 Pages

 1
 NAME OF REPORTING PERSON:

 Biotechnology Value Fund, L.P.

 I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY):

# 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\*

# 3 SEC USE ONLY

# 4 CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware 5 SOLE VOTING POWER NUMBER OF 0 SHARES BENEFICIALLY 6 SHARED VOTING POWER OWNED 292,263 BY EACH 7 SOLE DISPOSITIVE POWER REPORTING 0 PERSON SHARED DISPOSITIVE POWER WITH: 8 292,263 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

# 292,263

- 10 CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES\*
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

0.98%

# 12 TYPE OF REPORTING PERSON\*

PN

# **\*SEE INSTRUCTIONS BEFORE FILLING OUT!**

 

 CUSIP No. 759916 10 9
 13G
 Page 3 of 11 Pages

 1
 NAME OF REPORTING PERSON: Biotechnology Value Fund II, L.P. I.R.S. IDENTIFICATION NO. OF ABOVE PERSON (ENTITIES ONLY):
 (a) x (b) o

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

0

(a) x (b) o

# 4 CITIZENSHIP OR PLACE OF ORGANIZATION

	Delaware				
	NUMBER OF SHARES	7	SOLE VOTING POWER 0		
SHAKES BENEFICIALLY OWNED BY		6	SHARED VOTING POWER 215,179		
	EACH REPORTING PERSON	Н <b>7</b> ГING	SOLE DISPOSITIVE POWER 0		
	WITH:	8	SHARED DISPOSITIVE POWER 215,179		
9	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	215,179				
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.72%				
12	TYPE OF REPO	ORTING PI	ERSON*		
	PN				
			<b>*SEE INSTRUCTIONS BEFORE FILLING OUT!</b>		
CUSIP No. 759916 10 9		_	13G	Page 4 of 11 Pages	
1	NAME OF REPO <b>BVF Investment</b> I.R.S. IDENTIFIC	s, L.L.C.	ERSON: O. OF ABOVE PERSON (ENTITIES ONLY):		
2	CHECK THE AP	PROPRIA	TE BOX IF A MEMBER OF A GROUP*	(a) x (b) c	

3 SEC USE ONLY

# Edgar Filing: REPLIGEN CORP - Form SC 13G/A

# 4 CITIZENSHIP OR PLACE OF ORGANIZATION

	Delaware				
	NUMBER OF SHARES	5	SOLE VOTING POWER 0		
BENEFICIALLY OWNED BY		6	6 SHARED VOTING POWER 318,221		
	EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER 0		
	WITH:	8	SHARED DISPOSITIVE POWER 318,221		
9	AGGREGATE	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	318,221				
10	CHECK IF THE	ECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* 0			
11	PERCENT OF C	CLASS RE	PRESENTED BY AMOUNT IN ROW (11)		
	1.07%				
12	TYPE OF REPO	ORTING P	ERSON*		
	00				
			<b>*SEE INSTRUCTIONS BEFORE FILLING OUT!</b>		
CUSIP No. 759916 10 9		_	13G	Page 5 of 11 Pages	
1	NAME OF REPO Investment 10, L I.R.S. IDENTIFIC	LC	ERSON: IO. OF ABOVE PERSON (ENTITIES ONLY):		
2				(a) x (b) o	
3	SEC USE ONLY				
4	CITIZENSHIP O	R PLACE	OF ORGANIZATION		
	Illinois				

			Edgar Filing: REPLIGEN CORP - Form SC 13G/A			
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	5	SOLE VOTING POWER 0			
		6	SHARED VOTING POWER 6,300			
		7	SOLE DISPOSITIVE POWER 0			
		8	SHARED DISPOSITIVE POWER 6,300			
9	AGGREGATE A	AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING PERSON			
	6,300					
10	CHECK IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*					
11	PERCENT OF C	CLASS RE	EPRESENTED BY AMOUNT IN ROW (11)			
	0.02%					
12	TYPE OF REPO	TYPE OF REPORTING PERSON*				
	00					
			<b>*SEE INSTRUCTIONS BEFORE FILLING OUT!</b>			
CUS	SIP No. 759916 10 9	-	13G	Page 6 of 11 Pages		
1	NAME OF REPO <b>BVF Partners L.</b> I.R.S. IDENTIFIC	P.	ERSON: NO. OF ABOVE PERSON (ENTITIES ONLY):			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*				(a) x (b) c	
3	SEC USE ONLY					
4	CITIZENSHIP OI	R PLACE	OF ORGANIZATION			
	Delaware					
	NUMBER OF SHARES	5	SOLE VOTING POWER 0			
	BENEFICIALLY	6	SHARED VOTING POWER			

			Edgar Filing: REPLIGEN CORP - Form SC 13G/A				
	OWNED BY		831,963				
	EACH REPORTING PERSON	'ING <b>0</b>					
	WITH:	8	SHARED DISPOSITIVE POWER 831,963				
9	AGGREGATE . 831,963	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
10	CHECK IF THE	E AGGREC	AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* o				
11	PERCENT OF (	CLASS RE	PRESENTED BY AMOUNT IN ROW (11)				
	2.79%						
12	TYPE OF REPO	ORTING PI	ERSON*				
_	PN	PN					
			<b>*SEE INSTRUCTIONS BEFORE FILLING OUT!</b>				
CUSIP No. 759916 10 9		_	13G	Page 7 of 11 Pages			
1	NAME OF REPO <b>BVF Inc.</b> I.R.S. IDENTIFIC		ERSON: O. OF ABOVE PERSON (ENTITIES ONLY):				
2	CHECK THE AP				(a) x (b) o		
3	SEC USE ONLY	SEC USE ONLY					
4	CITIZENSHIP O	R PLACE	OF ORGANIZATION				
•	Delaware						
	NUMBER OF SHARES	5	SOLE VOTING POWER 0				
	BENEFICIALLY OWNED	6	SHARED VOTING POWER 831,963				

			Edgar Filing: REPLIGEN CORP - F	form SC 13G/A			
	BY EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER 0				
	WITH:	8	SHARED DISPOSITIVE POWER 831,963				
9	AGGREGATE A	AMOUNT	BENEFICIALLY OWNED BY EACH REPOR	RTING PERSON			
	831,963						
10	CHECK IF THE	HE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES* 0					
11	PERCENT OF (	CLASS REI	PRESENTED BY AMOUNT IN ROW (11)				
	2.79%						
12	TYPE OF REPO	ORTING PH	RSON*				
	СО						
			<b>*SEE INSTRUCTIONS BEFORE FIL</b>	LING OUT!			
CUS	SIP No. 759916 10 9	_	13G	Page 8 of 11 Pages			
ITE	M 1(a). NAME OF IS	SUER:					
	Repligen Corporation (	"Repligen"	)				
ITE	M 1(b). ADDRESS OI	F ISSUER'	S PRINCIPAL EXECUTIVE OFFICES:				
ITE	41 Seyton Street Building 1, Suite 100 Waltham, Massachuse M 2(a). NAME OF PE		JNG:				
	This Amendment to Sc	hedule 130	is being filed on behalf of the following person	ns* (the "Reporting Persons"):			
(i)	Biotechnology Va	ılue Fund, I	"P. ('BVF')				
(ii)	Biotechnology Va	llue Fund II	, L.P. ('BVF2')				
(iii)	BVF Investments	, L.L.C. ('In	vestments')				

(iv)

Investment 10, L.L.C. ('Investment 10')

(v)

### BVF Partners L.P. ('Partners')

(vi)

## BVF Inc. ('BVF Inc.')

\* Attached as Exhibit 1 is a copy of an agreement among the Reporting Persons that this Amendment to Schedule 13G is being filed on behalf of each of them.

## ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE:

The principal business office of the Reporting Persons comprising the group filing this Amendment to Schedule 13G is located at 227 West Monroe Street, Suite 4800, Chicago, Illinois, 60606.

## ITEM 2(c). CITIZENSHIP:

BVF:	a Delaware limited partnership
BVF2:	a Delaware limited partnership
Investments:	a Delaware limited liability company
Investment 10:	an Illinois limited liability company
Partners:	a Delaware limited partnership
BVF Inc.:	a Delaware corporation
ITEM 2(d). TITLE OF CLASS OF SECURITIES:	

This Amendment to Schedule 13G is being filed with respect to the common stock, par value \$.01 per share (the 'Common Stock'), of Repligen. The Reporting Persons' percentage ownership of Common Stock is based on 29,859,173 shares of Common Stock being outstanding.

### ITEM 2(e). CUSIP Number:

759916 10 9

CUSIP No. 759916 10 9

# 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: One of the following

Not applicable as this Amendment to Schedule 13G is filed pursuant to Rule 13d-1(c).

# **ITEM 4. OWNERSHIP:**

The information in items 1 and 5 through 11 on the cover pages (pp. 2 - 7) on this Amendment to Schedule 13G is hereby incorporated by reference.

# 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 Persons have ceased to be the beneficial owner of more than five percent of the class of securities check the following. x

# ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON:

Pursuant to the operating agreement of Investments, Partners is authorized, among other things, to invest the funds of Ziff Asset Management, L.P., the majority member of Investments, in shares of the Common Stock and to vote and exercise dispositive power over those shares of Common Stock. Partners and BVF Inc. share voting and dispositive power over the shares of Common Stock beneficially owned by BVF, BVF2, Investments and those owned by Investment 10, on whose behalf Partners acts as investment manager and, accordingly, Partners and BVF Inc. have beneficial ownership of all of the shares of Common Stock owned by such parties.

# 13G

Page 9 of 11 Pages

# ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY:

Not applicable.

# ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF A GROUP:

Not applicable.

# **ITEM 9. NOTICE OF DISSOLUTION OF GROUP:**

Not applicable.

CUSIP No. 759916 10 9

**13G** 

Page 9 of 11 Pages

# **ITEM 10. CERTIFICATION**

By signing below I certify that, to the best of my 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.

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Dated: September 23, 2003

### **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

# **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 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

# **INVESTMENT 10, L.L.C.**

- By: BVF Partners L.P., its attorney-in-fact
  - 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 INC.

By: /s/ MARK N. LAMPERT

Mark N. Lampert President