ATHEROGENICS INC Form SC 13G/A July 10, 2002

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SECURITIES AND EXCHANGE COMMISSION

Washington, DC 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 13d-2(b)

(Amendment No. 4)¹

Atherogenics, Inc.
(Name of Issuer)
Common Stock
(Title of Class of Securities)
047439 10 4
(CUSIP Number)
July 8, 2002

(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)
- ý Rule 13d-1(c)
- o Rule 13d-1(d)

The information required on 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 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 disclosures provided in a prior cover page.

CUSIP NO. 047439 10 4			13G		Page 2 of 9 Pages	
1	NAME OF REPORTI Biotechnology Value					
	I.R.S. IDENTIFICAT	ION NO.	OF ABOVE PERSON (ENTITIES ONLY):			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*				(a) y (b) o	
3	3 SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF	ORGANIZATION			
	Delaware					
	NUMBER OF SHARES	5	SOLE VOTING POWER 0			
	BENEFICIALLY OWNED BY	6	SHARED VOTING POWER 1,151,840			
	EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER 0			
	WITH	8	SHARED DISPOSITIVE POWER 1,151,840			
9	AGGREGATE AMO	UNT BEI	REFICIALLY OWNED BY EACH REPORT	ING PERSON		
	1,151,840					
10	CHECK BOX IF THE	E AGGRI	GATE AMOUNT IN ROW (9) EXCLUDES	CERTAIN SHARES*		
					(
11	PERCENT OF CLAS	S REPRE	SENTED BY AMOUNT IN ROW 9			
	4.1%					
12	TYPE OF REPORTIN	NG PERS	ON*			
	PN					
			* SEE INSTRUCTIONS BEFORE	FILLING OUT!		

CUSIP NO. 047439 10 4			13G	Page 3 of 9 Pages	
1	NAME OF REPORTI				
	I.R.S. IDENTIFICATI	ION NO.	OF ABOVE PERSON (ENTITIES ONLY):		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*				
3	SEC USE ONLY				
4	CITIZENSHIP OR PL	ACE OF	ORGANIZATION		
	Delaware				
	NUMBER OF SHARES	5	SOLE VOTING POWER 0		
	BENEFICIALLY OWNED BY	6	SHARED VOTING POWER 680,825		
	EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER 0		
	WITH	8	SHARED DISPOSITIVE POWER 680,825		
9	AGGREGATE AMOU	UNT BEN	NEFICIALLY OWNED BY EACH REPORTING PERSON		
	680,825				
10	CHECK BOX IF THE	AGGRE	GATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SH	IARES*	
				0	
11	PERCENT OF CLASS	S REPRE	SENTED BY AMOUNT IN ROW 9		
	2.4%				
12	TYPE OF REPORTIN	IG PERS	ON*		
	PN				
			* SEE INSTRUCTIONS BEFORE FILLING OU	T!	

CUSIP NO. 047439 10 4			13	G	Page 4 of 9 Pages	
1	NAME OF REPORTI		SON:			
	I.R.S. IDENTIFICAT	ION NO.	OF ABOVE PERSON (ENTITIES	ONLY):		
2	2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*					
3	3 SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF	ORGANIZATION		_	
	Delaware					
	NUMBER OF SHARES	5	SOLE VOTING POWER 0			
	BENEFICIALLY OWNED BY	6	SHARED VOTING POWER 1,510,865			
	EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER 0			
	WITH	8	SHARED DISPOSITIVE POWE 1,510,865	ER		
9	AGGREGATE AMO	UNT BEI	EFICIALLY OWNED BY EACH	REPORTING PERSON		
	1,510,865					
10	CHECK BOX IF THE	E AGGRI	GATE AMOUNT IN ROW (9) EX	CLUDES CERTAIN SH.	ARES*	
					C	
11	PERCENT OF CLAS	S REPRE	SENTED BY AMOUNT IN ROW	9		
	5.4%					
12	TYPE OF REPORTIN	NG PERS	ON*			
	00					
			* SEE INSTRUCTIONS B	BEFORE FILLING OUT	Γ!	

CUSIP NO. 047439 10 4			13G	_	Page 5 of 9 Pages	
1	NAME OF REPORTI BVF Partners, L.P.	NG PER	SON:			
	I.R.S. IDENTIFICAT	ION NO.	OF ABOVE PERSON (ENTITIES ONL	.Y):		
2	2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*					
3	3 SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF	ORGANIZATION		_	
	Delaware					
	NUMBER OF SHARES	5	SOLE VOTING POWER 0			
	BENEFICIALLY OWNED BY	6	SHARED VOTING POWER 3,488,370			
	EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER 0			
	WITH	8	SHARED DISPOSITIVE POWER 3,488,370			
9	AGGREGATE AMO	UNT BEI	EFICIALLY OWNED BY EACH REPO	ORTING PERSON		
	3,488,370					
10	CHECK BOX IF THE	E AGGRI	GATE AMOUNT IN ROW (9) EXCLU	DES CERTAIN SHARES*		
					(
11	PERCENT OF CLAS	S REPRE	SENTED BY AMOUNT IN ROW 9			
	12.5%					
12	TYPE OF REPORTIN	NG PERS)N*			
	PN					
			* SEE INSTRUCTIONS BEFO	ORE FILLING OUT!		

CUSIP NO. 047439 10 4			13G	Page 6 of 9 Pages		
1	NAME OF REPORTI	NG PER	GON:			
	I.R.S. IDENTIFICAT	ION NO.	OF ABOVE PERSON (ENTITIES ONLY):			
2	2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*					
3	3 SEC USE ONLY					
4	CITIZENSHIP OR PI	LACE OF	ORGANIZATION			
	Delaware					
	NUMBER OF SHARES	5	SOLE VOTING POWER 0			
	BENEFICIALLY OWNED BY	6	SHARED VOTING POWER 3,488,370			
	EACH REPORTING PERSON	7	SOLE DISPOSITIVE POWER 0			
	WITH	8	SHARED DISPOSITIVE POWER 3,488,370			
9	AGGREGATE AMO	UNT BEI	EFICIALLY OWNED BY EACH REPORTING	PERSON		
	3,488,370					
10	CHECK BOX IF THE	E AGGRE	GATE AMOUNT IN ROW (9) EXCLUDES CEI	RTAIN SHARES*		
				(
11	PERCENT OF CLAS	S REPRE	SENTED BY AMOUNT IN ROW 9			
	12.5%					
12	TYPE OF REPORTIN	NG PERS)N*			
	IA, CO					
			* SEE INSTRUCTIONS BEFORE FIL	LING OUT!		

CUSIP NO. 047439 10 4	13G	Page 7 of 9 Pages

ITEM 1(a). NAME OF ISSUER:

Atherogenics, Inc. ("Atherogenics")

ITEM 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:

8995 Westside Parkway Alpharetta, Georgia 30004

ITEM 2(a). NAME OF PERSON FILING:

This Amendment to Schedule 13G is being filed on behalf of the following persons* (the "Reporting Persons"):

- (i) Biotechnology Value Fund, L.P. ("BVF")
- (ii) Biotechnology Value Fund II, L.P. ("BVF2")
- (iii)
- BVF Investments, L.L.C. ("Investments")
- (iv)
 BVF Partners L.P. ("Partners")
- (v)
 BVF Inc. ("BVF Inc.")

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Attached as Exhibit 1 is a copy of an agreement among the Reporting Persons filing (as specified hereinabove) 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
Partners: a Delaware limited partnership
BVF Inc.: a Delaware corporation

ITEM 2(d). TITLE OF CLASS OF SECURITIES:

Common Stock.

ITEM 2(e). CUSIP Number:

047439 10 4

CUSIP NO. 047439 10 4	13G	Page 8 of 9 Pages
ITEM 3. IF THIS STATEMENT IS FII THE PERSON FILING IS: O	LED PURSUANT TO RULE 13d-1(b), or 13d-2(b) one of the following	or (c) CHECK WHETHER
Not applicable as this	Amendment to Schedule 13G is filed pursuant to Rule	13d 1(c).
ITEM 4. OWNERSHIP:		
The information in ite incorporated by refere	ms 1 and 5 through 11 on the cover pages (pp. 2 - 6) or ence.	n this Amendment to Schedule 13G is hereby
ITEM 5. OWNERSHIP OF FIVE PER	CENT OR LESS OF A CLASS:	
	ng filed to report the fact that as of the date hereof the core than five percent of the class of securities check the	
ITEM 6. OWNERSHIP OF MORE TH	AN FIVE PERCENT ON BEHALF OF ANOTHER	R PERSON:
shares voting and disp also shares voting and and BVF Inc. share vo addition to BVF, BVF	d dispositive power over the shares of the common stock ositive power over the shares of the common stock it be dispositive power over the shares of the common stock of this positive power over the shares of the common stock o	eneficially owns with Partners. Investments k it beneficially owns with Partners. Partners non stock they beneficially own with, in e behalf Partners, as investment manager,
	ASSIFICATION OF THE SUBSIDIARY WHICH A TED ON BY THE PARENT HOLDING COMPANY	
Not applicable.		
ITEM 8. IDENTIFICATION AND CLA	ASSIFICATION OF MEMBERS OF A GROUP:	
Not applicable.		
ITEM 9. NOTICE OF DISSOLUTION	OF GROUP:	
Not applicable.		
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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: July 10, 2002

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

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

QuickLinks

SCHEDULE 13G

ITEM 1(a). NAME OF ISSUER

ITEM 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES

ITEM 2(a). NAME OF PERSON FILING

ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE

ITEM 2(c). CITIZENSHIP

ITEM 2(d). TITLE OF CLASS OF SECURITIES

ITEM 2(e). CUSIP Number

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

ITEM 4. OWNERSHIP

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS

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

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED

ON BY THE PARENT HOLDING COMPANY

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF A GROUP

ITEM 9. NOTICE OF DISSOLUTION OF GROUP

ITEM 10. CERTIFICATION