ABIOMED INC Form SC 13G/A April 10, 2007

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 13G
UNDER THE SECURITIES EXCHANGE ACT OF 1934
(AMENDMENT NO. 4)*

ABIOMED, Inc.
(Name of Issuer)
Common Stock, par value \$0.01 per share
(Title of Class of Securities)
003654100
(CUSIP Number)
(Date of Event Which Requires Filing of this Statement)
Check the appropriate box to designate the rule pursuant to which this Schedule 13G is filed:
[_] Rule 13d-1 (b) [X] Rule 13d-1 (c) [_] 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).

* 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 could alter the

disclosures provided in a prior cover page.

1. NAME OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). Dr. David M. Lederman, husband of Ms. Natalie F. Lederman 2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_] 3. SEC USE ONLY 4. CITIZENSHIP OR PLACE OF ORGANIZATION: United States 5. SOLE VOTING POWER: 855,000 NUMBER 6. SHARED VOTING POWER: 95 SHARES ERNEFICIALLY 00 WIND BY EACH 7. SOLE DISPOSITIVE POWER: REPORTING PERSON WITH 855,000 8. SHARED DISPOSITIVE POWER: 0 9. ACCREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON: 855,000 10. CHECK IF THE ACCREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) [_] 11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9): 2.7% 12. TYPE OF REPORTING PERSON: (SEE INSTRUCTIONS) IN Page 2 of 6 Pages	CUSIP NO.	003654100		SCHEDULE 13G	PAGE 2 OF 6 PAGES		
2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_] 3. SEC USE ONLY 4. CITIZENSHIP OR PLACE OF ORGANIZATION:	1.						
(a) [_] (b) [_] 3. SEC USE ONLY 4. CITIZENSHIP OR PLACE OF ORGANIZATION:		Dr. David M. Lederman, husband of Ms. Natalie F. Lederman					
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12. TYPE OF REPORTING PERSON: (SEE INSTRUCTIONS) IN Page 2 of 6 Pages	11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):					
IN		2.7%					
Page 2 of 6 Pages	12.	TYPE OF REPORTING PERSON: (SEE INSTRUCTIONS)					
Page 2 of 6 Pages							
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				GOVERNMENT 120	PAGE 3 OF 6 PAGES		

1.	NAME OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY).						
	Ms. Natalie F. Lederman, wife of Dr. David M. Lederman						
2.	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_]						
3.	SEC USE ONLY						
4.	CITIZENSHIP OR PLACE OF ORGANIZATION:						
	United States						
		5.	SOLE VOTING POWER:				
			545,700				
NUMBER	-	6.	SHARED VOTING POWER:				
OF SHARES BENEFICIA	LLY		0				
OWNED BY EACH REPORTING PERSON WIT	-	7.	SOLE DISPOSITIVE POWER:				
			545,700				
	-	8.	SHARED DISPOSITIVE POWER:				
			0				
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON:						
	545,700						
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) [_]						
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9):						
	1.7%						
12.	TYPE OF REPORTING PERSON: (SEE INSTRUCTIONS)						
	IN						
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ITEM 1(a). NAME OF ISSUER: ABIOMED, Inc.

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

22 Cherry Hill Drive, Danvers, Massachusetts 01923

- ITEM 2(b). ADDRESS OF PRINCIPAL BUSINESS OFFICE, OR, IF NONE, RESIDENCE: c/o Analytical LLC, P.O. Box 7015, Beverly, MA 01915
- ITEM 2(c). CITIZENSHIP: United States
- ITEM 2(d). TITLE OF CLASS OF SECURITIES: Common Stock, par value \$0.01 per share
- ITEM 2(e). CUSIP NO.: 003654100
- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO SS.SS. 240.13d-1(b) OR 240.13-2(b) OR (c), CHECK WHETHER THE PERSON FILING IS A:
 - (a) [_] Broker or dealer registered under section 15 of the Act (15 U.S.C. 780).
 - (b) [_] Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
 - (c) [_] Insurance company as defined in section 3(a)(19) of the Act $(15\ U.S.C.\ 78c)$.
 - (d) [_] Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
 - (e) [_] An investment adviser in accordance with ss.240.13d-1(b)(1)(ii)(E);
 - (f) [_] An employee benefit plan or endowment fund in accordance with ss.240.13d-1(b)(1)(ii)(F);
 - (g) [_] A parent holding company or control person in accordance with ss.240.13d-1(b)(1)(ii)(G);
 - (h) [_] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
 - (i) [_] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
 - (j) [_] Group, in accordance with ss.240.13d-1(b)(1)(ii)(J).

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ITEM 4. OWNERSHIP

- (a) Amount Beneficially Owned: As of April 10, 2007, Dr. Lederman beneficially owns 855,000 shares of Common Stock, which amount includes 355,000 shares of Common Stock issuable upon the exercise of stock options that are currently vested, or which will vest within 60 days of the date of this filing. Ms. Lederman beneficially owns 545,700 shares of Common Stock. Each of them disclaims beneficial ownership of the shares held by the other.
- (b) Percent of Class: Dr. Lederman 2.7%; Ms. Lederman 1.7%; Total 4.4%.
- (c) Number of shares as to which such person has:
 - (i) Sole power to vote or to direct the vote: Dr. Lederman: 855,000 shares

Ms. Lederman: 545,700 shares Total: 1,400,700 shares

- (ii) Shared power to vote or direct the vote: 0
- (iii) Sole power to dispose or to direct the disposition of:

Dr. Lederman: 855,000 shares
Ms. Lederman: 545,700 shares
Total: 1,400,700 shares

- (iv) shared power to dispose or to direct the disposition of: 0
- 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 person has 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 Not Applicable.
- ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED BY THE PARENT HOLDING COMPANY OR CONTROL PERSON

Not Applicable.

- ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE 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.

SIGNATURE

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.

/s/ David M. Lederman
David M. Lederman, Ph.D.
April 10, 2007
Date
/s/ Natalie F. Lederman
Natalie F. Lederman
April 10, 2007
Date

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