

ABIOMED INC  
Form SC 13G/A  
February 12, 2010

**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549**

**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934  
(Amendment No. 1)\***

**ABIOMED, INC.**

(Name of Issuer)

**COMMON STOCK, \$0.01 PAR VALUE**

(Title of Class of Securities)

**003654100**

(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)

\*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).

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CUSIP No. 003654100

1. Names of Reporting Persons.  
I.R.S. Identification Nos. of above persons (entities only).  
  
Genzyme Corporation (IRS Identification No. 06-1047163)
2. Check the Appropriate Box if a Member of a Group (See Instructions)    Not applicable.  
(a)   
(b)
3. SEC Use Only
4. Citizenship or Place of Organization  
Massachusetts
5. Sole Voting Power  
2,146,231
6. Shared Voting Power  
0
7. Sole Dispositive Power  
2,146,231
8. Shared Dispositive Power  
0
9. Aggregate Amount Beneficially Owned by Each Reporting Person  
2,146,231
10. Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)   
Not applicable.
11. Percent of Class Represented by Amount in Row (9)  
5.7%
12. Type of Reporting Person (See Instructions)  
CO

Number of  
Shares  
Beneficially  
Owned by  
Each  
Reporting  
Person With

**Item 1.**

- (a) Name of Issuer  
ABIOMED, Inc.
- (b) Address of Issuer's Principal Executive Offices  
22 Cherry Hill Drive, Danvers, MA 01923

**Item 2.**

- (a) Name of Person Filing  
Genzyme Corporation
- (b) Address of Principal Business Office or, if none, Residence  
500 Kendall Street, Cambridge, MA 02142
- (c) Citizenship  
Genzyme Corporation is a Massachusetts corporation.
- (d) Title of Class of Securities  
Common Stock, \$0.01 par value per share
- (e) CUSIP Number  
003654100

**Item 3.**

**If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-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. 78o).
- (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 §240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with § 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 §240.13d-1(b)(1)(ii)(J).

Not applicable.

**Item 4. Ownership.**

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned:  
  
2,146,231
- (b) Percent of class:  
  
5.7%
- (c) Number of shares as to which the person has:
  - (i) Sole power to vote or to direct the vote  
  
2,146,231
  - (ii) Shared power to vote or to direct the vote  
  
0
  - (iii) Sole power to dispose or to direct the disposition of  
  
2,146,231
  - (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 .

Not applicable.

**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 on 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.

**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.

Date: February 12, 2010

**GENZYME CORPORATION**

By: /s/ Peter Wirth  
Peter Wirth  
Executive Vice President, Legal and  
Corporate Development