Greenfield Andrew J Form 4 May 25, 2010

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB 3235-0287

OMB APPROVAL

Number:

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Check this box if no longer subject to Section 16. Form 4 or

Form 5 obligations may continue. See Instruction

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Last)

(City)

Common

par value

Stock, \$.01

(Print or Type Responses)

1. Name and Address of Reporting Person * Greenfield Andrew J

2. Issuer Name and Ticker or Trading Symbol

Issuer

below)

(Middle)

(Zip)

ABIOMED INC [ABMD] 3. Date of Earliest Transaction

(Month/Day/Year) 05/24/2010

Director 10% Owner X_ Officer (give title Other (specify

(Check all applicable)

5. Relationship of Reporting Person(s) to

VP Healthcare Solutions

C/O ABIOMED, INC., 22 CHERRY HILL DRIVE

(State)

05/24/2010

(First)

(Street) 4. If Amendment, Date Original

Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check

Applicable Line)

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

DANVERS, MA 01923

1.Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D) (Instr. 3, 4 and 5) (Instr. 8)

5. Amount of Securities Beneficially Owned Following Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) or

Transaction(s) (Instr. 3 and 4)

Code V Amount (D) Price \$

 $S^{(6)}$

1.192 D

44,665

9.1

(7)

D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transactio Code (Instr. 8)	5. onNumber of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)			7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. De Se (In
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (right to buy) (1)	\$ 14.98					01/04/2006(3)	01/04/2015	Common Stock	30,000	
Stock Option (right to buy) (2)	\$ 9.36					06/08/2006(3)	06/08/2015	Common Stock	20,000	
Stock Option (right to buy) (2)	\$ 8.77					11/16/2006(3)	11/16/2015	Common Stock	15,000	
Stock Option (right to buy) (2)	\$ 13.57					06/01/2007(3)	06/01/2016	Common Stock	40,000	
Stock Option (right to buy) (2)	\$ 11.27					05/30/2008(3)	05/30/2017	Common Stock	10,000	
Stock Option (right to buy) (2)	\$ 13.8					05/23/2009(3)	05/23/2018	Common Stock	9,000	
Stock Option (right to buy) (4)	\$ 5.86					05/28/2010(3)	05/28/2019	Common Stock	50,000	
Stock Option (right to buy) (4)	\$ 5.86					03/31/2010(5)	05/28/2019	Common Stock	30,000	

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Greenfield Andrew J C/O ABIOMED, INC. 22 CHERRY HILL DRIVE DANVERS. MA 01923

VP Healthcare Solutions

Signatures

/s/ Ian W. McLeod (by power of attorney)

05/25/2010

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Grant to reporting person of option to buy shares of Common Stock under ABIOMED, Inc. 1998 Equity Incentive Plan.
- (2) Grant to reporting person of option to buy shares of Common Stock under ABIOMED, Inc. 2000 Stock Incentive Plan.
- (3) These options become exercisable in annual 25% increments commencing on the date shown in Table II, Column 6.
- (4) Grant to reporting person of option to buy shares of Common Stock under ABIOMED, Inc. 2008 Stock Incentive Plan.
- (5) These options become exerciseable upon the achievement of a certain performance milestone based on the results of Abiomed's fiscal year ended March 31, 2010.
- (6) Sale of common stock pursuant to reporting owner's 10b5-1 plan to pay tax liability upon vesting.
- This price represents the weighted average sale price of multiple transactions on the reported date at prices that ranged between \$9.10 and (7) \$9.12. Detailed information regarding the number of shares sold at each separate price will be provided upon request by the Commission staff, the issuer, or a security holder of the issuer.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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