

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | |
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| OMB Number: | 3235-0287 |
| Estimated average burden hours per response: | 0.5 |

| | | |
|---|---|--|
| 1. Name and Address of Reporting Person* MULLEN JAMES C (Last) (First) (Middle) 14 CAMBRIDGE CENTER (Street) CAMBRIDGE MA 02142 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol BIAGEN IDEC INC. [BIIB] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) CEO & President |
| | 3. Date of Earliest Transaction (Month/Day/Year) 04/11/2008 | |
| | 4. If Amendment, Date of Original Filed (Month/Day/Year) | |

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-----------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 2,600 | D | \$64.71 | 582,547 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 2,600 | D | \$64.72 | 579,947 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 1,777 | D | \$64.73 | 578,170 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 3,300 | D | \$64.74 | 574,870 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 2,300 | D | \$64.75 | 572,570 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 300 | D | \$64.755 | 572,270 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 3,050 | D | \$64.76 | 569,220 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 1,700 | D | \$64.77 | 567,520 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 100 | D | \$64.775 | 567,420 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 1,620 | D | \$64.78 | 565,800 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 3,050 | D | \$64.79 | 562,750 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 300 | D | \$64.8 | 562,450 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 400 | D | \$64.81 | 562,050 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 5,800 | D | \$64.82 | 556,250 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 2,062 | D | \$64.83 | 554,188 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 2,466 | D | \$64.84 | 551,722 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 8,157 | D | \$64.85 | 543,565 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 12,195 | D | \$64.86 | 531,370 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 10,720 | D | \$64.87 | 520,650 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 6,200 | D | \$64.88 | 514,450 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 12,302 | D | \$64.89 | 502,148 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 4,054 | D | \$64.9 | 498,094 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 6,942 | D | \$64.91 | 491,152 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 100 | D | \$64.9175 | 491,052 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 12,340 | D | \$64.92 | 478,712 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 6,882 | D | \$64.93 | 471,830 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 10,898 | D | \$64.94 | 460,932 | D | |
| Common Stock | 04/11/2008 | | s ⁽¹⁾ | | 70,947 | D | \$64.95 | 389,985 | D | |
| Common Stock | | | | | | | | 104,708 | I | 2008 GRAT |

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

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | | | | | | | | 44,252 | I | 2006 GRAT |

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

| 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. Transaction Code (Instr. 8) | | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|--|-----------------|---|--|--|---|--|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | |

Explanation of Responses:

1. Exercise/sale pursuant to a trading plan intended to comply with Rule 10b5-1 of the Securities Exchange Act of 1934.

Remarks:

Marcia J. Gookin, Attorney in fact for James C. Mullen 04/15/2008

** Signature of Reporting Person Date

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

* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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