

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

| OMB APPROVAL                                 |           |
|--|-----------|
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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

|   |   |   |
|---|---|---|
| 1. Name and Address of Reporting Person*<br><u>MULLEN JAMES C</u><br><br>(Last) (First) (Middle)<br><u>14 CAMBRIDGE CENTER</u><br><br>(Street)<br><u>CAMBRIDGE MA 02142</u><br><br>(City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>BIOGEN IDEC INC. [ BIIB ]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br><input checked="" type="checkbox"/> Director 10% Owner<br><input checked="" type="checkbox"/> Officer (give title below) Other (specify below)<br><b>CEO &amp; President</b> |
|   | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>03/19/2010</u>           |   |
|   | 4. If Amendment, Date of Original Filed (Month/Day/Year)                        | 6. Individual or Joint/Group Filing (Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> Form filed by More than One Reporting Person  |

**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                    | 03/19/2010                           |  | M <sup>(1)</sup>               |   | 287,500   | A          | \$51.85                     | 418,649   | D  |   |
| Common Stock                    | 03/19/2010                           |  | M <sup>(1)</sup>               |   | 46,721  | A          | \$49.03                     | 465,370   | D  |   |
| Common Stock                    | 03/19/2010                           |  | S <sup>(1)</sup>               |   | 334,221   | D          | \$59.9721 <sup>(2)(3)</sup> | 131,149   | D  |   |
| Common Stock                    | 03/22/2010                           |  | M <sup>(1)</sup>               |   | 106,279   | A          | \$49.03                     | 237,428   | D  |   |
| Common Stock                    | 03/22/2010                           |  | S <sup>(1)</sup>               |   | 106,279   | D          | \$59.9528 <sup>(2)(4)</sup> | 131,149   | D  |   |
| Common Stock                    |                                      |  |                                |   |   |            |                             | 75,000  | I  | 2008 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 | Title   | Amount or Number of Shares |  |  |   |  |
| Non-qualified Stock Option (Right to Buy)  | \$51.85  | 03/19/2010                           |  | M <sup>(1)</sup>               |   |  | 287,500 | (5)  | 06/16/2010      | Common Stock  | 287,500                    | (7)  | 0  | D   |  |
| Non-qualified Stock Option (Right to Buy)  | \$49.03  | 03/19/2010                           |  | M <sup>(1)</sup>               |   |  | 46,721  | (6)  | 12/14/2011      | Common Stock  | 46,721                     | (7)  | 355,779  | D   |  |
| Non-qualified Stock Option (Right to Buy)  | \$49.03  | 03/22/2010                           |  | M <sup>(1)</sup>               |   |  | 106,279 | (6)  | 12/14/2011      | Common Stock  | 106,279                    | (7)  | 249,500  | D   |  |

**Explanation of Responses:**

- Exercise/sale pursuant to a trading plan intended to comply with Rule 10b5-1 of the Securities Exchange Act of 1934.
- Full information regarding the number of shares sold at each separate price will be provided upon request by the SEC staff, the issuer, or a security holder of the issuer.
- This represents the weighted average price for shares sold at a range between \$59.95 (low) and \$60.15 (high).
- This represents the weighted average price for shares sold at a range between \$59.95 (low) and \$59.98 (high).
- The stock option became exercisable in seven (7) equal annual installments, commencing one year after the grant date of 06/16/00.
- The stock option became exercisable in four (4) equal annual installments, commencing one year after the grant date of 12/14/01.
- Granted under one of the Issuer's stock option plans, in an exempt transaction under SEC rule 16(b)-3(d).

/s/ Aras Lapinskas, Attorney in 03/23/2010  
Fact for James C. Mullen

\*\* 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.

