Cox John Form 3 August 10, 2010

FORM 3

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

OMB APPROVAL

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INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

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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

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement **BIOGEN IDEC INC. [BIIB]** Cox John (Month/Day/Year) 08/02/2010 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) C/O BIOGEN IDEC INC.. 133 (Check all applicable) **BOSTON POST ROAD** (Street) 6. Individual or Joint/Group 10% Owner Director _X__ Officer Other Filing(Check Applicable Line) (give title below) (specify below) _X_ Form filed by One Reporting EVP Pharmaceutical Oper & Tech Person WESTON, MAÂ 02493 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 1. Title of Security 2. Amount of Securities 4. Nature of Indirect Beneficial Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 4) Form: (Instr. 5) Direct (D) or Indirect (I) (Instr. 5) Â Common Stock 18,254.0411 D Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a

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

currently valid OMB control number.

3. Title and Amount of 1. Title of Derivative Security 2. Date Exercisable and 5. 6. Nature of Indirect (Instr. 4) **Expiration Date** Securities Underlying Conversion Ownership Beneficial Ownership (Month/Day/Year) **Derivative Security** or Exercise Form of (Instr. 5) (Instr. 4) Price of Derivative Derivative Security: Title Direct (D) Security

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| | Date Exercisable | Expiration Date | | Amount or Number of Shares | | or Indirect (I) (Instr. 5) | |
|-----------------------------|---------------------|--------------------|-----------------|----------------------------------|----------|----------------------------|---|
| Restricted Stock Unit | (1) | 02/23/2014 | Common Stock | 10,396 | \$ 0 (2) | D | Â |
| Stock Option (Right to Buy) | (3) | 07/28/2013 | Common Stock | 6,900 | \$ 33.97 | D | Â |
| Stock Option (Right to Buy) | (4) | 02/06/2014 | Common Stock | 2,840 | \$ 43.5 | D | Â |
| Stock Option (Right to Buy) | (5) | 02/17/2015 | Common Stock | 3,900 | \$ 67.57 | D | Â |
| Stock Option (Right to Buy) | (6) | 03/13/2016 | Common Stock | 6,900 | \$ 47.92 | D | Â |
| Stock Option (Right to Buy) | (7) | 02/12/2017 | Common Stock | 7,400 | \$ 49.31 | D | Â |
| Stock Option (Right to Buy) | (8) | 11/01/2017 | Common Stock | 8,700 | \$ 72.87 | D | Â |
| Stock Option (Right to Buy) | (9) | 02/12/2018 | Common Stock | 23,130 | \$ 60.56 | D | Â |
| Stock Option (Right to Buy) | (10) | 02/24/2019 | Common Stock | 15,175 | \$ 49.65 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | |
|--------------------------------|---------------|-----------|----------------------------------|-------|--|
| 1 8 | Director | 10% Owner | Officer | Other | |
| Cox John | | | | | |
| C/O BIOGEN IDEC INC. | â | Â | EVP Pharmaceutical Oper & Tech | â | |
| 133 BOSTON POST ROAD | А | А | A EVP Pharmaceutical Oper & Tech | Α | |
| WESTON, MA 02493 | | | | | |

Signatures

Robert A. Licht, Attorney in Fact for John Cox 08/10/2010

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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).

The number of RSUs reported represents the maximum possible number of shares that are eligible for vesting, which is 150% of the number of shares at target payout. One-fourth of these RSUs are eligible to vest on each of the first four anniversaries of the grant date.

(1) The actual number of shares that will vest on each vesting date will be determined by comparing the price of Biogen Idec common stock on such vesting date to the price on the grant date (i.e., number of vested shares = number of shares at target payout times [the average 60 calendar-day closing stock price on the grant date]).

Reporting Owners 2

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- (2) There is no conversion or exercise price for this stock unit.
- (3) The stock options became exercisable in four (4) equal annual installments commencing one year after the grant date of 7/28/2003.
- (4) The stock options became exercisable in four (4) equal annual installments commencing on 12/31/2004.
- (5) The stock options became exercisable in four (4) equal annual installments commencing one year after the grant date of 2/17/2005.
- (6) The stock options became exercisable in four (4) equal annual installments commencing one year after the grant date of 3/13/2006.
- (7) The stock options vest in four (4) equal annual installments commencing one year after the grant date of 2/12/2007.
- (8) The stock options vest in four (4) equal annual installments commencing one year after the grant date of 11/1/2007.
- (9) The stock options vest in four (4) equal annual installments commencing one year after the grant date of 2/12/2008.
- (10) The stock options vest in four (4) equal annual installments commencing one year after the grant date of 2/24/2009.

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.