

Sirgo Mark A  
 Form 5  
 January 31, 2011

**FORM 5**

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

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).  
 Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES**

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. Name and Address of Reporting Person \*  
 Sirgo Mark A

(Last) (First) (Middle)

C/O BIODELIVERY SCIENCES  
 INTL, INC., 801 CORPORATE  
 CENTER DRIVE, SUITE 210

(Street)

RALEIGH, NC 27607

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 BIODELIVERY SCIENCES  
 INTERNATIONAL INC [BDSI]

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
 12/31/2010

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 President and CEO

6. Individual or Joint/Group Reporting

(check applicable line)

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**

| 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 at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|-----------------------------------|
|                                 |                                      |  |                                | (A) or (D) Price  |  |  |                                   |

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. 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 Underlying Security (Instr. 3 and 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| Option (to buy)                            | \$ 3.9   | 01/21/2010                           | Â  | A4                             | 37,348 Â  | 01/21/2011 <sup>(1)</sup> 01/21/2020                     | Common Stock 37,  |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                     |       |
|---|---------------|-----------|---------------------|-------|
|   | Director      | 10% Owner | Officer             | Other |
| Sirgo Mark A<br>C/O BIODELIVERY SCIENCES INTL, INC.<br>801 CORPORATE CENTER DRIVE, SUITE 210<br>RALEIGH, NC 27607 | Â X           | Â         | Â President and CEO | Â     |

## Signatures

/s/ Mark A.  
Sirgo

01/28/2011

\*\*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) One third of the options granted herein will vest on each of the following dates, January 21, 2011; January 21, 2012 and January 21, 2013, subject to the condition that the reporting person is employed by the Issuer on each of the respective dates.
- (2) Not applicable. Such options were granted by the Issuer in connection as employee compensation.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.