

ORGANOVO HOLDINGS, INC.  
 Form 4  
 December 21, 2012

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL  
 OMB Number: 3235-0287  
 Expires: January 31, 2015  
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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).

**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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**MICHAELS BARRY D**

2. Issuer Name and Ticker or Trading Symbol  
**ORGANOVO HOLDINGS, INC. [ONVO]**

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)  
 Director  10% Owner  
 Officer (give title below)  Other (specify below)  
 Chief Financial Officer

(Last) (First) (Middle)  
**6275 NANCY RIDGE DRIVE, SUITE 110**  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
**12/21/2012**

**SAN DIEGO, CA 92121**

(City) (State) (Zip)

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

6. Individual or Joint/Group Filing(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 Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
|                                 |                                      |  | Code                           | V   | Amount  | (D)  | Price                             |
| Common Stock                    | 12/21/2012                           |  | M                              |   | 10,000  | A  | \$ 0.8                            |
|                                 |                                      |  |                                |   | 690,313   | D  |                                   |

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

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SEC 1474 (9-02)

**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) | Amount or Number of Shares |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|----------------------------|
| Warrant (Right to Buy)                     | \$ 1   | 12/21/2012                           |  | H                              | 10,000  | 03/16/2012 03/16/2017                                    | Common Stock  | 10,000                     |
| Warrant (Right to Buy)                     | \$ 0.8   | 12/21/2012                           |  | P                              | 10,000  | 03/16/2012 03/16/2017                                    | Common Stock  | 10,000                     |
| Warrant (Right to Buy)                     | \$ 0.8   | 12/21/2012                           |  | M                              | 10,000  | 03/16/2012 03/16/2017                                    | Common Stock  | 10,000                     |

## Reporting Owners

| Reporting Owner Name / Address   | Relationships |           |                         |       |
|--|---------------|-----------|-------------------------|-------|
|  | Director      | 10% Owner | Officer                 | Other |
| MICHAELS BARRY D<br>6275 NANCY RIDGE DRIVE, SUITE 110<br>SAN DIEGO, CA 92121 |               |           | Chief Financial Officer |       |

## Signatures

/s/ Barry  
Michaels 12/21/2012

\*\*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).

These two transactions reported in Table II above involve the amendment of an outstanding warrant to reduce the exercise price from (1) \$1.00 a share to \$0.80 a share in connection with the Company's tender offer. The amendment is reported above as the cancellation of the prior warrant and the acquisition of a new one.

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.