ORGANOVO HOLDINGS, INC.

Form 4

February 18, 2016

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB Number:

3235-0287

Expires:

January 31, 2005

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Check this box

if no longer

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Murphy Keith

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

below)

(First)

(State)

ORGANOVO HOLDINGS, INC.

(Check all applicable)

[ONVO]

(Middle)

(Zip)

(Last)

3. Date of Earliest Transaction (Month/Day/Year)

_X__ Director X_ Officer (give title

10% Owner Other (specify

6275 NANCY RIDGE DRIVE.

SUITE 110

02/16/2016

Chairman, CEO and President

6. Individual or Joint/Group Filing(Check

(Street)

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

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

SAN DIEGO, CA 92121

(City)

1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 5. Amount of Securities Beneficially Owned **Following**

Reported

6. Ownership 7. Nature of Form: Direct Indirect (D) or Beneficial Ownership Indirect (I) (Instr. 4) (Instr. 4)

(A) Code V Amount (D) Price

Transaction(s) (Instr. 3 and 4)

Common 02/16/2016 Stock

24,690 \$ F D (1) 2.04

5,919,638 (2)

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

(Month/Day/Year)

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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 or 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 Securities (Instr. 3 and 4)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Option (Right to Buy) (3)	\$ 2.04	02/16/2016		A	24,690	02/16/2016	02/16/2026	Common Stock	24,690

Reporting Owners

Reporting Owner Name / Address	Relationships					
Reporting Owner Name / Nauress	Director	10% Owner	Officer	Other		
Murphy Keith 6275 NANCY RIDGE DRIVE, SUITE 110 SAN DIEGO, CA 92121	X		Chairman, CEO and President			

Signatures

/s/ Keith
Murphy

**Signature of Date

**Signature of Da Reporting Person

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).
- The shares were withheld at the election of the Reporting Person to satisfy tax withholding obligations in connection with the partial (1) vesting of restricted stock units granted in August 2012 in accordance with the terms of the Reporting Person's Equity Incentive Award Agreement dated August 2012.
- This number does not include 1,416,454 shares of common stock underlying outstanding options and 30,000 shares of common stock (2) underlying warrants held by Mr. Murphy; post-transaction Mr. Murphy continues to beneficially own or have a right to acquire 7,366,092 shares of common stock.
- (3) The option was automatically issued pursuant to the terms of the Reporting Person's Equity Incentive Award Agreement issued in August 2012.

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.

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