FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

vasimigton	, D.O. 20040	

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 2. Issuer Name and Ticker or Trading Symbol 5. Relationship of Reporting Person(s) to Issuer 1. Name and Address of Reporting Person' (Check all applicable) ORGANOVO HOLDINGS, INC. ONVO Murphy Keith Director X 10% Owner Officer (give title Other (specify X 3. Date of Earliest Transaction (Month/Day/Year) below) (Last) (First) (Middle) below) 06/04/2015 Chairman, CEO and President 6275 NANCY RIDGE DRIVE, SUITE 110 4. If Amendment, Date of Original Filed (Month/Day/Year) 6. Individual or Joint/Group Filing (Check Applicable Line) (Street) **SAN DIEGO** 92121 CA Form filed by One Reporting Person Form filed by More than One Reporting (City) (State) (qiZ) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 4. Securities Acquired (A) or 2. Transaction 2A. Deemed 5. Amount of 6. Ownership 7. Nature of 1. Title of Security (Instr. 3) Disposed Of (D) (Instr. 3, 4 and 5) Date **Execution Date** Transaction Securities Form: Direct Indirect Beneficially Owned Following (D) or Indirect (I) (Instr. 4) Beneficial Ownership (Month/Day/Year) if any (Month/Day/Year) Code (Instr 8) Reported (Instr. 4) Transaction(s) (Instr. 3 and 4) (A) or (D) Code Amount Price Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 1. Title of 2. 3. Transaction 5. Number of 6. Date Exercisable and 7. Title and Amount 8. Price of 9. Number of 10. 11. Nature

Security (Instr. 3)	or Exercise Price of Derivative Security	Date (Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Transaction Code (Instr. 8)		Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiration Date (Month/Day/Year)		of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Security (Instr. 5)	Securities Beneficially Owned Following Reported	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		
Stock Option (Right to	\$4.92	06/04/2015		A		465,000		(2)	06/04/2025	Common Stock	465,000	\$0.00	465,000	D	

Explanation of Responses:

- 1. Annual long-term equity award approved by the Compensation Committee of the Issuer's Board of Directors.
- 2. 25% of the option shares vest and become exercisable on June 4, 2016 and the remaining shares vest in 12 equal quarterly installments thereafter.

Remarks:

/s/ Keith Murphy

06/08/2015

** 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.

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