FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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0.5

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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

1. Name and Address of Reporting Person* Murphy Keith						2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner					
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110						3. Date of Earliest Transaction (Month/Day/Year) 08/12/2015								X	Offic	er (give title w)		r (specify v)	
(Street) SAN DIE			92121 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Indiv Line) X	ridual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - N	on-Deriv	ative	Sec	uritie	s Ac	quire	d, Di	sposed o	f, or B	enefic	ially	Owne	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/N						Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 1)			ed (A) or tr. 3, 4 an	nd 5) Secur Benef Owne		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	(A) or (D)	Price			action(s) 3 and 4)		(Instr. 4)		
Common Stock 08/12/20					015	15		P		20,000	A	\$2.55	594 ⁽¹⁾	5,9	44,328 ⁽²⁾	D			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	if any	ion Date,	n Date, Transa Code		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable a Expiration Date (Month/Day/Year)		ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Secu (Inst	vative durity S r. 5) B C F R	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	or Number of Shares	1					

Explanation of Responses:

- 1. This transaction was executed in multiple purchases through a purchase order executed by a broker-dealer at prices ranging from \$2.555 to \$2.560. The price reported in this column reflects the weighted average purchase price. The Reporting Person will provide upon request to the SEC staff, the Issuer, or a security holder of the Issuer, full information regarding the number of shares purchased at each separate
- 2. This number does not include 1,391,764 shares of common stock underlying outstanding options and 30,000 shares of common stock 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.

Remarks:

/s/ Keith Murphy

08/13/2015

** 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.