FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Washington, D.C. 20349

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPROVAL											
l	OMB Number:	3235-0287										
l	Estimated average burde	en										
l	hours per response:	0.5										

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

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)					
Murphy Keith							<u> </u>								or		10% O	vner		
(Last)	(F		3. Date of Earliest Transaction (Month/Day/Year)								X Officer below?	(give title		Other (: below)	specify					
6275 NA	NCY RID	02,	02/08/2017								Chai	rman, CE	O an	d Presider	ıt					
(Street)							4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)						
SAN DIEGO CA 92121														X Form	Form filed by One Reporting Person					
(City) (State) (Zip)					-										Form filed by More than One Reporting Person					
		Tal	ole I - N	on-Deri	vativ	e Sec	curit	ies Ac	quire	d, Di	sposed o	of, or Be	neficial	ly Owned						
1. Title of Security (Instr. 3)  2. Transaction Date (Month/Day/						Execution Date,		3. Transaction Code (Instr. 8)		4. Securities Disposed O	rities Acquired (A) or ed Of (D) (Instr. 3, 4 a		Benefic Owned	es ially Following	Form (D) o	n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership			
							v	Amount	(A) or (D)	Price	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)					
Common Stock 02/08/20							17		M		30,000	A	\$1	6,068,915			I <sup>(1)</sup>	IRA		
Common Stock 02/09/20						17		S <sup>(2)</sup>		25,000	D	\$3.6814	6,04	3,915(4)		D				
			Table II								posed of, converti			Owned						
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deel Execution if any (Month/I		4. Transa Code ( 8)				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amour of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficia Owned Following Reported Transactic (Instr. 4)	Owners Form: Direct (I or Indire (I) (Instr	Ownership	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares							
Warrant	\$1 <sup>(5)</sup>	02/08/2017			M	м		30,000	02/08/2	2012	02/08/2017	Common Stock	30,000	00 \$0.00 0			D			

## Explanation of Responses:

- 1. The Warrants are held by the Equity Trust Co. Custodian FBO Keith Murphy IRA.
- $2. \ The \ sale \ of \ shares \ was \ effected \ pursuant \ to \ a \ Rule \ 10b5-1 \ trading \ plan \ adopted \ by \ the \ Reporting \ Person.$
- 3. This transaction was executed in multiple sales through a sale order executed by a broker-dealer at prices ranging from \$3.63 to \$3.74. The price reported in this column reflects the weighted average sale 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 sold at each separate price.
- 4. This number does not include 1,831,454 shares of common stock underlying outstanding options held by Mr. Murphy; post-transaction Mr. Murphy continues to beneficially own or have a right to acquire 7,875,369 shares of common stock.
- 5. The Reporting Person exercised warrants to purchase 30,000 shares of the Issuer's common stock for \$1.00 a share. The warrant would have expired by its terms if not exercised by the Reporting Person on February 8, 2017.

## Remarks:

/s/ Keith Murphy

02/10/2017

\*\* Signature of Reporting Person

Date

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

- $^{\star}$  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.