FORM 4

Check this box if no longer subject to

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	S IN BENEFICIA	L OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* Mayorby: Koith					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														X Directo	or	10% Owne		vner	
(Last)	(F	irst)	(Middle)			3. Date of Earliest Transaction (Month/Day/Year)								X Officer below)	(give title Other (below)		specify		
6275 NANCY RIDGE DRIVE, SUITE 110				02	02/13/2015								Chai	rman, CE	O an	d Presiden	t		
(Street)					4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
SAN DII	EGO C.	A	92121										X Form f	Form filed by One Reporting Person					
(City)	(S	tate)	(Zip)											Form f Persor	led by More than One Reportinq		rting		
		Tab	le I - Noi	n-Deri	ivativ	e Se	curities	s Ac	quired, [Disp	osed o	f, or Be	neficial	y Owned	l				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				Execution Date,		Code (In	Transaction Disposed Of (D) (Instr. 3, 4 Code (Instr. 5)		ed (A) or tr. 3, 4 and	5. Amou Securiti Benefici Owned I Reporte	es ally Following	Form (D) o	n: Direct r Indirect istr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)					
							Code	v	Amount	nt (A) or Pr		Transac	nsaction(s) etr. 3 and 4)						
Common Stock 02/13/				13/201	/2015		F		28,008 ⁽¹⁾ D \$		\$6.3	4 5,961	5,961,328(2)		D				
		-	Table II -						uired, Di , options					Owned					
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)	Date,	4. Transaction Code (Instr. 8)		n of l		5. Date Exercisable and Expiration Date Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	illy	Ownershi Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisable		expiration pate	Title	Amount or Number of Shares						
Stock Option (Right to	\$6.34	02/13/2015			A		28,008		02/13/2015	5 0	2/13/2025	Common Stock	28,008	\$0	28,00	3	D		

Explanation of Responses:

- 1. The shares were withheld at the election of the Reporting Person to satisy tax withholding obligations in connection with the partial vesting of restricted stock units granted August 2012.
- 2. This number does not include 898,756 shares of common stock underlying oustanding 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 6,890,084 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.

/s/ Keith Murphy

02/18/2015

** 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.