FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-028								
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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*						2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>Murphy Keith</u>						ORGINO VO HOLDHAO, INC. [ORVO]							, ,	X	Direc	ctor	10% (Owner	
(Last)	(Fi	rst) (Middle)	3. 🖸	Date of	Earlies	t Trar	nsaction	n (Mon	th/Day/Year)			X	Office	er (give title w)	Other below	(specify	
6275 NANCY RIDGE DRIVE, SUITE 110					12/	12/10/2013									Chairman, CEO and President				
(Street) SAN DIEGO CA 92121					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person					
- J2121													Λ	Form filed by More than One Reporting Person					
(City) (State) (Zip)															r 613011				
		Tabl	e I - I	Non-Deriv	ative	Seci	uritie	s A	cquir	ed, D	isposed o	f, or E	Benefic	ially (Owne	ed			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye					Year)	Execution Date,		· · /			Acquired (A) or (D) (Instr. 3, 4 and		d 5) Sec Ber Ow		ount of ities ficially 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 12/10/201				13	13			S ⁽¹⁾		100,000	D	\$10.07	753 ⁽²⁾	6,2	01,748 ⁽³⁾	D			
		Та	ble I								posed of, convertib				vned				
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 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 Securities Underlying Derivative Security (Instr. and 4)		Deriv Secu (Inst	vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(: (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date	cisable	Expiration Date	Title	of Shares						

Explanation of Responses:

- 1. The sale of shares was effecutated pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person.
- 2. This transaction was executed in multiple sales through a sale order executed by a broker-dealer at prices ranging from \$9.971 to \$10.221. 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.
- 3. This number does not include 294,344 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 6,526,092 shares of common stock.

/s/ Keith Murphy 12/12/2013

** 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.