UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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).

FORM 4

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* <u>KIMBERLIN KEVIN</u>					2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]								tionship of R all applicabl Director Officer (gi	e)	Person(X	s) to Issue 10% Ov Other (s	vner
(Last)(First)(Middle)1700 EAST PUTNAM AVENUE3RD FLOOR			(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 09/27/2012								below)	ve uue		below)	респу
(Street) GREENWICH CT 06870				4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Indiv X	 Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person 					
(City)	(State)	(Zip)	Dori		Socuri	tios Aca	uirod	Die	acced of	or Bond		wood				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)		2A. De Execu ar) if any	2A. Deemed Execution Date,		uired, Disposed of, or Benefic 3. Transaction Code (Instr. 8) 4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4)			(A) or	r 5. Amount o		6. Own Form: I (D) or I (I) (Inst	Direct ndirect rr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)				(1130.4)
										osed of, o onvertible		icially Owi ties)	ned				
1. Title of Derivative Security (Instr. 3)	or Exercise (Month/Day/Year) if any Code (Instr. Price of (Month/Day/Year) 8) Derivative							Underlying Security	lerlying Derivative urity Security		ber of ve ies ially	10. Ownershi Form: Direct (D) or Indirect	Beneficial Ownership (Instr. 4)				
	Security			Code	v	(A)	(D)	Date Exerci	sable	Expiration Date	Title	Amount or Number of Shares		Reporte	ollowing (I) (Instr. eported ransaction(s) nstr. 4)		.)
Warrant (right to purchase)	\$1	09/27/2012		J			1,961,788	03/16/	/2012	03/15/2017	Common Stock	1,961,788	\$0	339,	800	I	By Spence Trask Ventures, Inc. ⁽¹⁾
Warrant (right to purchase)	\$1	09/27/2012		J		1,187,399		03/16/	/2012	03/15/2017	Common Stock	1,187,399	\$0	1,187	7,399	I	By Spence Trask Investment Partners, LLP ⁽¹⁾

Explanation of Responses:

1. The Reporting Person has sole investment and dispositive control over these securities and disclaims any beneficial ownership of the Issuer's securities held indirectly for purposes of Section 16, except to the extent of his indirect pecuniary interest therein, and this report shall not be deemed an admission that the Reporting Person is the beneficial owner of such securities for the purpose of Section 16 or for any other purpose.

/S/ KEVIN KIMBERLIN

** Signature of Reporting Person

02/14/2013 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.