Instruction 1(b).

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL	OWNERSHIP

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

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>Baltera Robert Jr.</u>						2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]								lationship o ck all applio Directo	able)	g Pers	son(s) to Iss 10% Ov	
(Last)	`	,	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 10/18/2012									Officer below)	(give title		Other (s below)	specify
6275 NA	INCY RIDO	GE DRIVE, SUI	TE 110	-													<i>(</i> =1	
(Street) SAN DIEGO CA 92121			'	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Ind Line) X	′					
(City)	(S	tate)	(Zip)															
		Tak	ole I - Non-	Derivat	ive S	ecurities	s Ac	quired, D	ispo	osed o	f, or Be	nefic	ially	Owned				
Date				2. Transact Date (Month/Day	Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquisities Acquisiti			ties Acquir I Of (D) (Ins	ed (A) o	or and	5. Amount of Securities Beneficially Owned Following Reported		Form (D) o	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							Code	,	Amount	nount (A) or (D)		се	Transact (Instr. 3 a	on(s)		ľ	(111341. 4)	
		-	Table II - D					uired, Dis s, 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 Da if any (Month/Day/Y	Cod	sactior e (Instr			6. Date Exercisable an Expiration Date (Month/Day/Year)			7. Title and Am of Securities Underlying Derivative Sec (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indirect (I) (Instr.	Ownership	Beneficial Ownership t (Instr. 4)
				Cod	e V	(A)	(D)	Date Exercisable	Ex	piration te	Title	Amou or Numl of Share	oer					
Stock Option (Right to	\$2.54	10/18/2012		A		17,500		(1)	10/	/18/2022	Common Stock	17,5	00	\$0	17,500	0	D	

Explanation of Responses:

1. The option shares vest and become exercisable in full on the earlier of (i) October 18, 2013 or (ii) immediately prior to commencement of the Issuer's next annual stockholder meeting,

/s/ Barry Michaels, Attorney-

10/22/2012

Date

in-fact

** Signature of Reporting Person

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.