FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APP	ROVAL
ID	OMB Number:	3235-02

87 Estimated average burden 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

1. Name and Address of Reporting Person* HOWSON TAMAR D					2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
HOWSON TAMAR D															Directo	r		10% Ov	vner	
(Last) (First) (Middle)					3. Date of Earliest Transaction (Month/Day/Year) 08/20/2014									Officer below)	(give title		Other (s below)	specify		
6275 NANCY RIDGE DRIVE, SUITE 110																				
(Chara)					4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) SAN DIEGO CA 92121														X Form filed by One Reporting Person						
SAN DII	EGO C.	A	92121													Form filed by More than Person			rting	
(City)	(S	tate)	(Zip)																	
		Tab	ole I - Non-	-Deriva	ative	e Se	curities	s Ac	quired,	Dis	posed o	of, or Be	nefi	cially	Owned					
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execution Date,			Code (Instr. 5)				4 and Securitie Beneficia Owned F		es For ally (D) Following (I) (I		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)		rice	Reported Transact (Instr. 3 a	tion(s)			(Instr. 4)			
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of Derivative Security (Instr. 3)	rative Conversion Date rity or Exercise (Month/Day/Year) if any			ate, Ti	Transaction Code (Instr. 8)				6. 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(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				c	ode	v	(A)	(D)	Date Exercisabl		Expiration Date	Title	or	ount nber res						
Stock Option (Right to Buy)	\$7.62	08/20/2014			Α		31,500		(1)	(08/20/2024	Common Stock	31,	500	\$0	31,500	0	D		

Explanation of Responses:

1. The option shares vest and become exercisable in full on the earlier of (i) August 20, 2015 or (ii) immediately prior to commencement of the Issuer's next annual stockholder meeting,

/s/ Barry Michaels, Attorney-

08/26/2014

in-fact

** 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.