FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	<b>OWNERSHIP</b>

Ц	OMB APPRO	VAL
	OMB Number:	3235-0287
	Estimated average burde	en
П	houre por rosponso:	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*  GLOVER JAMES T						2. Issuer Name <b>and</b> Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ ONVO ]								Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director 10% Owner					
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110					3. Date of Earliest Transaction (Month/Day/Year) 08/21/2013								Α		(give title		Other (s	·	
(Street) SAN DII			92121 (Zip)		4. 1	lf Amendment, Date of Original Filed (Month/Day/Year)								3. Indi Line) X	<b>,</b>				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				Execution Date,		Code (Ins			tr. 3, 4	and Securitie Beneficia Owned F Reported		es Form ally (D) o Following (I) (Ir		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (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)	rivative Conversion Date Execution Date, Curity or Exercise (Month/Day/Year) if any		ransa	ansaction of ode (Instr. Derivative		ive ies ed ed nstr.	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		Derivative Security		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	Code	v	(A)	(D)	Date Exercisable		xpiration ate	Title	Amou or Numb of Share	er					
Stock Option (Right to Buy)	\$5.86	08/21/2013			A		30,500		(1)	08	8/21/2023	Common Stock	30,5	00	\$0	30,50	0	D	

## **Explanation of Responses:**

1. The option shares vest and become exercisable in full on the earlier of (i) August 21, 2014 or (ii) immediately prior to commencement of the Issuer's next annual stockholder meeting.

/s/ Barry Michaels, Attorney-

08/23/2013

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.