FORM 4

obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, I	D.C.	20549
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Check this box if no longer subject to Section 16. Form 4 or Form 5

OMB APPROVAL										
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1. Name and Address of Reporting Person* MICHAELS BARRY D				2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
MICHAELS BARRY D													Dire	ctor	10% (Owner	
												_		er (give title		(specify	
(Last)	(Fi	rst) (Middle)				est Trans	saction (N	1onth/	Day/Year)				helo	w)	below)
					08/06/2012								Chief Financial Officer				
6275 NA	6275 NANCY RIDGE DRIVE, SUITE 110																
-					4. If Amendment, Date of Original Filed (Month/Day/Year)							6	6. Individual or Joint/Group Filing (Check Applicable				
(Street)							,	3		,		,		ine)		3 (1.1.
SAN DIE	EGO CA	Α 9	92121											X Forr	n filed by One	e Reporting Pers	son
														Forr	n filed by Mo	re than One Rep	orting
(0):	(0)		- : \											Pers	son		Ü
(City)	(S)	tate) (Zip)														
		Tabl	e I - Non-	Deriva	ative S	ecurit	ies Ac	quired,	Dis	posed o	f, or	Ben	eficia	ally Own	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execut if any	A. Deemed xecution Date, any Month/Day/Year)	Transaction Disposed Code (Instr. 5)			ities Acquired (A) d Of (D) (Instr. 3, 4			nd Secur Benef Owne	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
								Code	v	Amount		(A) or	Price	Repor	action(s)		(Instr. 4)
									Ľ	7		(D)		(Instr.	3 and 4)		
Common	Stock			08/06/	2012			A		750,00	00	A	\$	0 7	60,000 D		
		Та	able II - De (e.							sed of, onvertib				y Owned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	sion Date Executions (Month/Day/Year) Executification (Month/Day/Year) (Month/Day/Year)	3A. Deemed Execution D if any (Month/Day/	ate, T	l. Fransacti Code (Ins	on of Der Sec (A) Dis of (posed D) str. 3, 4	6. Date E Expiratio (Month/D	7. Title and Amount of Securities Underlying Derivative Security (Ins and 4)			8. Price of Derivative Security (Instr. 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)		
							1 1				1	or		I	I		1

Date Exercisable

Expiration Date

Explanation of Responses:

/s/ Barry Michaels

Title

08/07/2012

** Signature of Reporting Person

of Shares

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.