FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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OIVID F	PROVAL							
OMB Number:	3235-028							

OMB Number:	3235-0287						
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).

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* MICHAELS BARRY D					2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]									k all applica Director	able)	g Person(s) to Issu 10% Ov		vner
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110					3. Date of Earliest Transaction (Month/Day/Year) 08/23/2013							X	below)	Officer (give title below) Chief Financial (pecify	
(Street)	EGO C.	A	92121	4	4. If Amendment, Date of Original Filed (Month/Day/Year)						Line)	Individual or Joint/Group Filing (Check Applicable ne) X Form filed by One Reporting Person Form filed by More than One Reporting						
(City)	(S	tate)	(Zip)		Person													
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
Date			Transaction ate Ionth/Day/	Execution Day/Year) if any		ecution Date, ny		Transaction Disposed Code (Instr.		ties Acquir I Of (D) (Ins		and 5) Securi Benefi Owned		s Illy ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: Direct II Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount	(A) or (D) Price		ice	Reported Transacti (Instr. 3 a	on(s) nd 4)			(Instr. 4)	
Common Stock 08/2			08/23/20	3/2013		F		102,14	,147 ⁽¹⁾ D		\$5.5	588,166			D			
			Table II - De (e.			curities Is, warr								wned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	Code		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amour of Securities Underlying Derivative Securit (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	derivative Securities Beneficia Owned Following Reported	Owner Form: Direct or Indi (I) (Ins	Ownership	Beneficial Ownership ect (Instr. 4)	
				Code	v	(A)		Date Exercisabl		xpiration ate	Title	Amou or Numb of Sha	er		Transaction(s (Instr. 4)			
Stock Option (Right to	\$5.5	08/23/2013		A		102,147		08/23/2013	3 0	8/23/2023	Common Stock	102,	147	\$0	102,14	17	D	

Explanation of Responses:

- 1. The shares were withheld at the election of the Reporting Person to satisfy tax withholding obligations in connection with the partial vesting of restricted stock units granted in August 2012.
- 2. The option was automatically issued pursuant to the terms of the Reporting Person's Equity Incentive Award Agreement issued in August 2012.

08/26/2013 /s/ Barry D. Michaels

** 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.