## FORM 4

#### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(h)

### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
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 <b>and</b> Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ ONVO ]									ationship ( k all applic Directo	•				
(Last) 6275 NA	`	irst) GE DRIVE, SUI	(Middle) TE 110			3. Date of Earliest Transaction (Month/Day/Year) 08/17/2016									Officer below)	(give title		Other (s below)	pecify	
(Street) SAN DII (City)		tate)	92121 (Zip)	- David	_	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line) X	X Form filed by One Reporting Person Form filed by More than One Reporting Person					
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transa Date (Month/D			saction	ear)	P.A. Deemed Execution Date, f any Month/Day/Year)		3. Transac Code (I	ction	4. Securi	ties Acqui d Of (D) (In	red (A)	or	5. Amou Securitie Benefici Owned F	nt of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A) (D)	or Pr	ice	Reported Transact (Instr. 3	ction(s)			(Instr. 4)	
Common Stock <sup>(1)</sup> 08/17/				L <mark>7/201</mark>	/2016		A		7,500 <sup>(2)</sup> A		. \$	0.00	146	146,006		D				
		-	Table II -						uired, D , option						wned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code ( 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisa Expiration Date (Month/Day/Yea			7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		5	Price of erivative ecurity istr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	is Silly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisabl		expiration Date	Title	Amo or Num of Shar	ber						
Stock Option (Right to Buy) <sup>(1)</sup>	\$4.35	08/17/2016			A		18,500		(3)	0	8/17/2025	Common Stock	18,5	500	\$0.00	18,500	0	D		

#### **Explanation of Responses:**

- 1. Annual long-term equity award issued pursuant to the Issuer's non-employee director compensation plan.
- 2. The shares represent a grant of Restricted Stock Units ("RSUs"). The RSUs represent a right to receive shares of the Issuer's common stock, at no additional conversion or exercise price. The RSUs vest and settle in full on the earlier of (I) August 15, 2017 or (ii) immediately prior to the Issuer's next annual stockholder meeting.
- 3. The option shares vest and become exercisable in full on the earlier of (i) August 15, 2017 or (ii) immediately prior to the Issuer's next annual stockholder meeting.

# Remarks:

/s/ Robert Baltera

08/19/2016

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\*\* Signature of Reporting Person Da

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.