FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-028							
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

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1. Name and Address of Reporting Person* <u>Bush Jennifer</u>					2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]										tionship of Reportin all applicable) Director Officer (give title below) General Coun		10% (Owner	
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110						3. Date of Earliest Transaction (Month/Day/Year) 06/27/2017											X	below	'
Street) SAN DIEGO CA 92121 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individ ne) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - No	n-Deriv	ative	Sec	uritie	es Ac	quired	, Dis	posed o	f, or	Bene	eficia	ally O	wne	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da				2A. Deemed Execution Date,		3. 4. Securit Transaction Code (Instr.		ties Acquired (A) d Of (D) (Instr. 3, 4			d 5)	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
								Code	v	Amount		(A) or (D)	Price	. 1	Transaction(s) (Instr. 3 and 4)			(111341.4)	
Common Stock ⁽¹⁾ 06/27				06/27/	2017			A		35,000 ⁽²⁾		A	\$0.00		79,951		D		
Common Stock ⁽¹⁾ 06/2				06/27/	/2017				A		190,000	(3)	A	\$0.00		269,951(4)		D	
		Та						•			osed of, onvertib				y Ow	ned			
1. Title of Derivative Security (Instr. 3)	tive Conversion Date Execution Date, ity or Exercise (Month/Day/Year) if any		n Date, Pay/Year)	Code (I	ransaction of ode (Instr. Derivativ		vative vrities nired r osed) r. 3, 4	6. Date Expiration (Month/I		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		ount nber	8. Prio Deriva Secur (Instr.	ative ity	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)		

Explanation of Responses:

- 1. Annual long-term equity award approved by the Compensation Committee of the Issuer's Board of Directors.
- 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. 25% of the RSUs vest and settle on November 15, 2017 and the remaining RSUs vest and settle in 12 equal quarterly installments thereafter.
- 3. 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 over 16 equal quarterly installments measured from May 15, 2017.
- 4. This number does not include 375,000 shares of common stock underlying outstanding options held by Ms. Bush; post-transaction Ms. Bush beneficially owns or has a right to acquire 644,951 shares of common stock.

Remarks:

<u>/s/ Jennifer Bush</u>

06/29/2017

** 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.