FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

	OMB APP	ROVAL
	OMB Number:	3235-0287
l	Estimated average b	ourden

0.5

hours per response:

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

Name and Address of Reporting Person* Bush Jennifer					2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]								elationship o eck all applica Director	able)	g Perso	on(s) to Issu 10% Ow Other (s	ner	
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110					3. Date of Earliest Transaction (Month/Day/Year) 08/15/2018								below)		sel &	below) Secretary	респу	
(Street) SAN DIEGO CA 92121 (City) (State) (Zip)				4.	4. If Amendment, Date of Original Filed (Month/Day/Year)						Line	dividual or Joint/Group Filing (Check Applicable) Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Ta	ble I - No	n-Dei	rivativ	ve S	ecurities	s Ac	quired,	Dis	posed o	of, or Be	neficially	/ Owned				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Date					Execution Date,		Transaction Disposed Of Code (Instr.		ies Acquired (A) or Of (D) (Instr. 3, 4 and 5		5. Amour Securitie Beneficia Owned F	s Fo ally (D ollowing (I)	Form (D) o	orm: Direct	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount	(A) or (D)	Price	Transacti (Instr. 3 a	on(s)			(Instr. 4)		
Common Stock 08/16/2				16/201	2018		F		12,400	(1) D	\$1.107	5 293,	503(2)		D			
			Table II -								osed of converti			Owned				
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)		4. Transaction Code (Instr. 8)		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	e s illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares		Transacti (Instr. 4)	on(s)		
Stock Option (Right to	\$1.135	08/15/2018			A		675,000		(3)		08/15/2028	Common Stock	675,000	\$0.00	675,00	00	D	

Explanation of Responses:

- 1. Represents the mandatory sale of shares to satisfy the Reporting Person's tax withholding obligations, in connection with the partial vesting and settlement of restricted stock units granted in July 2016, June 2017 and May 2018, pursuant to the Reporting Person's agreement with the Issuer.
- 2. This number does not include 1,333,333 shares of common stock underlying outstanding options held by Ms. Bush; post-transaction Ms. Bush beneficially owns or has a right to acquire 1,626,836 shares of common stock
- 3. 25% of the option shares vest and become exercisable on August 15, 2019 and the remaining shares vest in 12 equal quarterly installments thereafter.

Remarks:

/s/ Jennifer Bush

08/16/2018

** 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.