FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL			
	OMB Number:	3235-0287			
l	Estimated average burd	en			
l	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).

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>Presnell Sharon Collins</u>							2. Issuer Name <b>and</b> Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ ONVO ]								heck all ap	olicable) ctor		ssuer Owner (specify
(Last) 6275 NA	(Fi		3. Date of Earliest Transaction (Month/Day/Year) 08/19/2016									A belo						
(Street) SAN DIEGO CA 92121 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Lir	ne) X Forr Forr	ridual 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	curitie	s Ac	quired,	Dis	posed o	f, or I	Bene	eficia	lly Own	ed		
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day						Execution Date,			3. Transaction Code (Instr. 8)  4. Securities Acquired (Disposed Of (D) (Instr. 3)				Secur Benef	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code	v	Amount	(A) (D)	or	Price	Trans	action(s) 3 and 4)		(111501.4)			
Common	Stock	/2016	2016		F		1,109(1)	)   1	)	\$4.00	11	7,955 <sup>(2)</sup>	D					
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																	
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution if any	Month/Day/Year)		saction le (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		rative rities iired r osed ) c. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Date Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of Title Shares		ount	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)	

## Explanation of Responses:

- 1. The reported transaction represents the mandatory withholding of shares by the Issuer 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.
- 2. This number does not include 1,282,192 shares of common stock underlying outstanding options held by Dr. Presnell; post-transaction Dr. Presnell continues to beneficially own or have a right to acquire 1,400,147 shares of common stock.

## Remarks:

/s/ Sharon Presnell

08/23/2016

\*\* 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.