FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPF	ROVAL								
	OMB Number: 3235-028									
l	Estimated average burden									
l	hours per response:	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

1. Name and Address of Reporting Person*  Presnell Sharon Collins					2. Issuer Name <b>and</b> Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ ONVO ]							heck a	all applica Director	able)	Perso	on(s) to Issu 10% Ov Other (s	vner	
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110					3. Date of Earliest Transaction (Month/Day/Year) 03/12/2013							X Officer (give title Other (spec below) EVP, Research & Dev & CTO					·	
(Street) SAN DIEGO CA 92121 (City) (State) (Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year)							Individ ne) X	<i>'</i>							
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3)  2. Transa Date (Month/D					Execution Date,		Code (Ir 8)	Transaction Code (Instr. 8) Disposed Of (D) (Instr. 3, 2			str. 3, 4 an	1 and 5) Securities Beneficia Owned For		s Form (I) o ollowing (I) (Ir		Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
						Code	V	Amount	Amount (A) or (D)			Transaction(s) (Instr. 3 and 4)						
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)	3A. Deemed Execution Dat if any (Month/Day/Ye	Cod	saction e (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		De Se	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficial Owned Following Reported	is lly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				Cod	e V	(A)	(D)	Date Exercisable		xpiration ate	Title	Amount or Number of Share	s		Transaction(s (Instr. 4)		<u>'</u>	
Stock Option (Right to Buy)	\$3.93	03/12/2013		A		100,000		(1)	03	3/12/2023	Common Stock	100,00	0	\$0	100,00	0	D	

## **Explanation of Responses:**

1. 25% of the option shares vest and become exercisable on January 1, 2014 and the remaining shares vest in 12 equal quarterly installments thereafter.

/s/ Sharon Collins Presnell

03/14/2013

\*\* 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.