FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	. OWNERSHIP

OMB APF	PROVAL
OMB Number:	3235-0287
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0.5

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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 and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]									all app	olicable) otor		o Owner
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110					3. Date of Earliest Transaction (Month/Day/Year) 10/06/2014								X	belov	Officer (give title below) EVP, Research & I		Other (specify below) Dev & CTO	
(Street) SAN DIE			92121 Zip)		4. If	Amen	dment,	Date	of Origir	nal File	ed (Month/Da	ay/Year)		i. Indiv ine) X	Form	n filed by One n filed by Mor	Filing (Check Reporting Pore than One R	erson
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/				Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 a				ind 5) So B		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership				
									Code	v	Amount	(A) or (D)	Price			action(s) 3 and 4)		(Instr. 4)
Common	Stock			10/06/2	014				S ⁽¹⁾		50,000	D	\$6.10	95 ⁽²⁾	24	4,064 ⁽³⁾	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)	ate Executi Ionth/Day/Year) if any	ion Date,		insaction de (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)			and t of ies ying ive y (Instr. 3		vative curity S r. 5) E F	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amount or Number of Shares					

Explanation of Responses:

- 1. The sale of shares was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person.
- 2. This transaction was executed in multiple sales through a sale order executed by a broker-dealer at prices ranging from \$6.025 to \$6.35 The price reported in this column reflects the weighted average sale price. The Reporting Person will provide upon request to the SEC staff, the Issuer, or a security holder of the Issuer, full information regarding the number of shares sold at each separate price.
- 3. This number does not include 1,021,192 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 1,045,256 shares of common stock.

/s/ Sharon Collins Presnell 10/08/2014

** 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.