FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washin

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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gton, D.C. 20549	OMB APPRO
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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

OMB APPROVAL								
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1. Name and Address of Reporting Person Presnell Sharon Collins						ORGANOVO HOLDINGS, INC. [ONVO]								Check a	all app Direc		ig Per	10% C		
(Last) 6275 NA	,	rst) (GE DRIVE, SUI	Middle) TE 110			3. Date of Earliest Transaction (Month/Day/Year) 08/12/2013							X	belov	fficer (give title elow) EVP, Research		below)			
(Street) SAN DIE			92121 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)						. Individine)	Form	or Joint/Group Filing (Check Applicable rm filed by One Reporting Person rm filed by More than One Reporting rson						
		Tab	le I - No	n-Deriv	/ative	Se	curitie	s Acc	quired	, Dis	posed o	f, or	Ben	efici	ally O	wne	ed			
1. Title of Security (Instr. 3)			Date Ex (Month/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed (ties Acquired (A) I Of (D) (Instr. 3, 4			4 and 5) Secu Bene Own		cially I Following	Forn (D) o	wnership n: Direct or Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
									Code	v	Amount	t (A) or (D)		Price	1	Reported Transaction(s) Instr. 3 and 4)				(111501.4)
Common	Common Stock 08/12			/2013	2013			S ⁽¹⁾		75,000	75,000 D \$5		\$5.6	.6009 149,064 ⁽²⁾		9,064 ⁽²⁾		D		
		Ta									osed of, onvertib					ned				
1. Title of Derivative Security (Instr. 3) 2. Conversion or Exercise Price of Derivative Security		(Month/Day/Year) if any		on Date, Tran		action (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ative rities ired sed	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		estr. 3		ivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction((Instr. 4)	F C O	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	of	mber						

Explanation of Responses:

- 1. The sale of shares was effected pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person on June 12, 2013.
- 2. This number does not include 947,192 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 1,096,256 shares of common stock.

/s/ Sharon Collins Presnell 08/14/2013

** 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.