FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHAI	NGES IN BE	NEFICIAL	OWNERSHIP

OMB APPROVAL							
OMB Number:	3235-0287						
Estimated average b	urden						
hours por rosponso:	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

l	1 Sharon	Reporting Person* Collins First)	(Middle)	3.	S. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO] S. Date of Earliest Transaction (Month/Day/Year) 07/11/2016							Director Officer (below)	able) give title	g Person(s) to Issu 10% Ow Other (sp below) ntific Officer		ner		
(Street)		GE DRIVE, SUI	92121	4.	4. If Amendment, Date of Original Filed (Month/Day/Year)					6. Inc Line)	dividual or Joint/Group Filing (Check Applicable							
(City)	(9	State)	(Zip)					<u> </u>										
Date				Transactio	action 2A. Deemed Execution Date,		3. 4. Securi Transaction Code (Instr.		of, or Beneficial of the office of the offic		A) or	5. Amour	s For ally (D) ollowing (I) (: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Common	Common Stock ⁽¹⁾ 07/1			07/11/20	/2016		Code	v	Amount 50,000	(D)		Price \$0.00	Transacti (Instr. 3 a	on(s)		D		
Common	Stock		Table II - De	rivativ	e Sec			uired, D			or Be	nefic	cially (J04 [©] /		Б	
1. Title of Derivative Security (Instr. 3)	rivative Conversion Date Execution Date, curity or Exercise (Month/Day/Year) if any		Code	Transaction Code (Instr.		Derivative I		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		curity	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code	v	(A)		Date Exercisab		Expiration Date	Title	or Nu	nount Imber Shares		(Instr. 4)			
Stock Option (Right to Buy) ⁽¹⁾	\$3.99	07/11/2016		A		100,000		(4)		07/11/2026	Commo Stock	10	00,000	\$0.00	100,00	00	D	

Explanation of Responses:

- 1. Annual long-term equity award approved by the Compensation Committee of the Issuer's Board of Directors.
- 2. The shares represent a grant of Restricted Stock Units ("RSUs"). The RSUs represent a right to receive shares of the Issuer's common stock, at no additional conversion or exercise price. The RSUs vest and settle over 16 equal quarterly installments measured from May 15, 2016.
- 3. This number does not include 1,282,192 shares of common stock underlying outstanding options held by Dr. Presnell; post-transaction Dr. Presnell beneficially owns or has a right to acquire 1,401,256 shares of common stock.
- $4. \ The \ option \ shares \ vest \ and \ become \ exercisable \ over \ 16 \ equal \ quarterly \ installments \ measured \ from \ May \ 15, \ 2016.$

Remarks:

/s/ Sharon Presnell

07/13/2016

** 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.