FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPRO	VAL
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* KUSSMAN CRAIG (Last) (First) (Middle)						Susuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO] Date of Earliest Transaction (Month/Day/Year)								below)	able) r (give title		10% Ow Other (s below)	ner
6275 NANCY RIDGE DRIVE, SUITE 110				08	08/15/2018								Chief Financial Officer					
(Street) SAN DII	treet) AN DIEGO CA 92121				_ 4. _	4. If Amendment, Date of Original Filed (Month/Day/Year)							Line	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting				
(City)	(S	itate)	(Zip)			Person												
		Та	ble I - Noi	n-Deri	ivativ	ve S	ecuritie	s Ac	quired,	Dis	posed c	of, or Be	neficially	Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquire Disposed Of (D) (Instr. 8)		d (A) or r. 3, 4 and 5)	5. Amour Securitie Beneficia Owned F Reported	s ally ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)					
								Code	v	Amount	(A) or (D) Price		Transacti	ransaction(s) nstr. 3 and 4)			(1130.4)	
Common Stock 08/16			6/201	2018		F		15,320	20 ⁽¹⁾ D \$1.		347,823 ⁽²⁾			D				
			Table II -								osed of converti			Owned				
1. Title of Derivative Security (Instr. 3)	titive Conversion Date Execution Date, Tra		Transa Code (l	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		re es I (A) sed str.	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	e s ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
					Code	v	(A)		Date Exercisal		Expiration Date	Title	Amount or Number of Shares	unt (Instr. 4) per	ion(a)			
Stock Option (Right to Buy)	\$1.135	08/15/2018			A		675,000		(3)		08/15/2028	Common Stock	675,000	\$0.00	675,00	00	D	

Explanation of Responses:

- 1. Represents the mandatory sale of shares to satisfy the Reporting Person's tax withholding obligations, in connection with the partial vesting and settlement of restricted stock units granted in August 2016, June 2017 and May 2018, pursuant to the Reporting Person's agreement with the Issuer.
- 2. This number does not include 1.305,000 shares of common stock underlying outstanding options held by Mr. Kussman; post-transaction Mr. Kussman continues to beneficially own or have a right to acquire 1,652,823 shares of common stock.
- 3. 25% of the option shares vest and become exercisable on August 15, 2019 and the remaining shares vest in 12 equal quarterly installments thereafter.

Remarks:

/s/ Craig Kussman

08/16/2018

** 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.

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