FORM 4

obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

washington,	D.C.	20549	

Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
-blinetiana manifesta Car	

OMB APPROVAL

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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					2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]											k all applicable) Director Officer (give title below)		ing Person(s) to Issi 10% Ow Other (s below) ancial Officer		Owner	
(Last) 6275 NA	(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110					3. Date of Earliest Transaction (Month/Day/Year) 08/16/2017									X					вреспу	
(Street) SAN DIE)2121 Zip)		4. If									Indiv ne) X							
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date					h/Day/Year) if a		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Disposed Code (Instr. 8)			ies Ac Of (D	quired) (Instr.	(A) or 3, 4 ar	4 and S		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount		(A) or (D)	Price			action(s) 3 and 4)		(Instr.		
Common	Stock			08/16/	/2017				F		26,362	(1)	D	\$2.	06	32	5,638 ⁽²⁾	D	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 (Instr. 3) 3. Transaction Date (Month/Day/Year) (Month/Day/Year) 3. A. Deemed Execution Date, if any (Month/Day/Year)		n Date,		ansaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ative rities ired osed	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amount or Numbe of Title Shares			nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form: Direct (I or Indire (I) (Instr	hip c E O) (11. Nature of Indirect Beneficial Ownership (Instr. 4)			

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 and June 2017, pursuant to the Reporting Person's agreement with the Issuer.
- 2. This number does not include 330,000 shares of common stock underlying oustanding options held by Mr. Kussman; post-transaction Mr. Kussman continues to beneficially own or have a right to acquire 655,638 shares of common stock.

Remarks:

/s/ Craig Kussman

08/17/2017

** 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.