FORM 4

Check this box if no longer subject to

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.	C. 20549
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Filed purcuant to Section 16(a) of the Securities Eychange Act of 1034

OMB APPRO	VAL
OMB Number:	3235-0287
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Obligat	n 16. Form 4 or ions may conti tion 1(b).			Filed		t to Section 16(a					34		III.	nated av	rerage burde sponse:	n 0.5
1. Name and Address of Reporting Person*  KESSEL MARK				2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ ONVO ]						(Ch	telationship of the contract o	cable)	Reporting Person(s) to Issable)			
(Last) (First) (Middle) 6275 NANCY RIDGE DRIVE, SUITE 110			3. Date of Earliest Transaction (Month/Day/Year) 09/05/2019							Officer below)	(give title	title Other (spe below)		specify		
(Street) SAN DIEGO CA 92121 (City) (State) (Zip)				4. If Am	endment, Date o	of Original	I Filed	(Month/Da	ay/Year)	Line	X Form f	iled by On iled by Mo	e Repo	(Check Aporting Person One Repo	n	
		Tab	le I - Non-	-Deriva	tive Se	ecurities Ac	quired,	, Disp	osed o	of, or Ben	eficiall	y Owned	I			
1. Title of S	Security (Ins			2. Transac Date (Month/Da	ction	2A. Deemed Execution Date, if any (Month/Day/Yea	3. Transa	-	4. Securi	ties Acquired d Of (D) (Instr.	(A) or	5. Amou Securitie Beneficia Owned F Reported	nt of es ally Following d	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
1. Title of S	Security (Ins			2. Transac	ction	2A. Deemed Execution Date, if any	3. Transa	action (Instr.	4. Securi Disposed	ties Acquired	(A) or	5. Amou Securitie Beneficia Owned F	nt of es ally Following d tion(s)	Form (D) or	: Direct r Indirect str. 4)	of Indirect Beneficial Ownership
1. Title of S	Security (Ins	tr. 3)	Table II - D	2. Transac Date (Month/Da	ction ay/Year)	2A. Deemed Execution Date, if any	3. Transc Code 8) Code	action (Instr.	4. Securi Disposed 5) Amount	(A) or (D)	(A) or 3, 4 and	5. Amou Securitie Beneficie Owned F Reported Transact (Instr. 3 a	nt of es ally Following d tion(s)	Form (D) or	: Direct r Indirect str. 4)	of Indirect Beneficial Ownership

## **Explanation of Responses:**

\$0.266

1. The option represents an automatic annual award granted pursuant to the Issuer's non-employee director compensation plan. The option shares vest and become exercisable in full on the earlier of (i) September 5, 2020 or (ii) immediately prior to commencement of the Issuer's next annual stockholder meeting.

(D)

Date

Exercisable

(1)

**Expiration** 

09/05/2029

Title

Common

Stock

## Remarks:

Stock Option (Right to

Buy)

/s/ Jennifer Bush, as attorney-

Amount or Number

Shares

52,000

\$0.00

09/09/2019

52,000

D

\*\* 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).

09/05/2019

\*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Code

A

(A)

52,000

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.

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints Taylor Crouch, Craig Kussman and Jennifer Bush, and each of them individually, his or her true and lawful attorney-in-fact to:

- (1) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or 10% or greater stockholder of Organovo Holdings, Inc. (the "Company"), any and all Form 3, 4 and 5 reports required to be filed by the undersigned in accordance with Section 16(a) of the Securities Exchange Act of 1934, as amended, and the rules thereunder;
- (2) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 or 5 report and timely file such report with the United States Securities and Exchange Commission and any stock exchange or similar authority; and
- (3) take any other action of any type whatsoever in connection with the foregoing which, in the opinion of such attorney-in-fact, may be of benefit to, in the best interest of, or legally required by, the undersigned, it being understood that the documents executed by such attorney-in-fact on behalf of the undersigned, pursuant to this Power of Attorney, shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve in his discretion.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform each and every act and thing whatsoever requisite, necessary, and proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that such attorney-in-fact, or his substitute or substitutes, shall lawfully do or cause to be done by virtue of this Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that no such attorney-in-fact, in serving in such capacity at the request of the undersigned, is hereby assuming, nor is the Company hereby assuming, any of the undersigned's responsibilities to comply with Section 16 of the Securities Exchange Act of 1934, as amended.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Form 3, 4 and 5 reports with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 14th day of November, 2018.

/s/ Mark Kessel Signature

Mark Kessel Print Name