Instruction 1(b)

FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
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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

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1. Name and Address Renard Micha		*	2. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
(Last) (First) (Middle)			3. Date of Earliest Transaction (Month/Day/Year) 02/19/2014	Х	Director Officer (give title below) EVP of Commercial (10% Owner Other (specify below) Operations			
(Street) SAN DIEGO (City)	CA (State)	92121 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line) X	dual or Joint/Group Filing (C Form filed by One Reporti Form filed by More than C	ng Person			

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)				5. Amount of Securities Beneficially Owned Following Reported	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	Transaction(s) (Instr. 3 and 4)		(1150. 4)
Common Stock	02/21/2014		М		10,000	Α	\$1.65	10,000	D	
Common Stock	02/21/2014		S ⁽¹⁾		10,000	D	\$10.65	0	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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Numbe Derivativ Securitie Acquired Disposed (Instr. 3, 4	e s (A) or i of (D)	6. Date Exerc Expiration Da (Month/Day/Y	ate	e and 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) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable			Amount or Number of Shares				
Stock Option (Right to Buy) ⁽²⁾	\$9.86	02/19/2014		A		155,000		(3)	02/19/2024	Common Stock	155,000	\$0	155,000	D	
Stock Option (Right to Buy)	\$1.65	02/21/2014		М			10,000	(4)	07/23/2022	Common Stock	10,000	\$0	550,000	D	

Explanation of Responses:

1. The sale of shares was effectuated pursuant to Rule 10b5-1 trading plan adopted by the Reporting Person.

2. Annual long-term equity award approved by the Compensation Committee of the Issuer's Board of Directors.

3. 25% of the option shares vest and become exercisable on February 19, 2015 and the remaining shares vest in 12 equal quarterly installments thereafter.

4. 25% of the option shares vest and become exercisable on April 30, 2013 and the remaining shares vest in 12 equal quarterly installments thereafter.

02/20/2014

Date

** Signature of Reporting Person

/s/ Michael Renard

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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