ORGANOVO HOLDINGS, INC.

Form 4

August 19, 2016

FORM 4

subject to

Section 16.

Form 4 or

obligations

Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF **SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Last)

(City)

Common

Stock (1)

(Print or Type Responses)

1. Name and Address of Reporting Person *

GLOVER JAMES T

(First) (Middle)

6275 NANCY RIDGE DRIVE. SUITE 110

(Street)

(State)

08/17/2016

2. Issuer Name and Ticker or Trading

Symbol

ORGANOVO HOLDINGS, INC. [ONVO]

3. Date of Earliest Transaction

(Month/Day/Year) 08/17/2016

4. If Amendment, Date Original

3.

Filed(Month/Day/Year)

Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting

Officer (give title

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

Issuer

below)

X_ Director

SAN DIEGO, CA 92121

1. Title of 2. Transaction Date 2A. Deemed Security (Month/Day/Year) Execution Date, if (Instr. 3)

(Zip)

(Month/Day/Year)

TransactionAcquired (A) or Code (Instr. 8)

Disposed of (D) (Instr. 3, 4 and 5)

4. Securities

5. Amount of Securities Beneficially Owned Following

Reported

Form: Direct (D) or Indirect (I) (Instr. 4)

6. Individual or Joint/Group Filing(Check

6. Ownership 7. Nature of Indirect Beneficial Ownership (Instr. 4)

OMB APPROVAL

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January 31,

2005

0.5

OMB

Number:

Expires:

response...

5. Relationship of Reporting Person(s) to

(Check all applicable)

10% Owner

Other (specify

Estimated average

burden hours per

(A) Transaction(s) or (Instr. 3 and 4)

Code V Amount (D) Price

7,500 A

\$0 17,500 (2)

D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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 control number.

SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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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. Transactic Code (Instr. 8)	5. Number of orDerivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8 1 5 (
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	
Stock Option (Right to Buy) (1)	\$ 4.35	08/17/2016		A	18,500	(3)	08/17/2025	Common Stock	18,500	

Reporting Owners

Reporting Owner Name / Address	Relationships					
, F	Director	10% Owner	Officer	Other		
GLOVER JAMES T 6275 NANCY RIDGE DRIVE, SUITE 110 SAN DIEGO, CA 92121	X					

Signatures

/s/ James Glover 08/19/2016

**Signature of Date
Reporting Person

Explanation of Responses:

- * 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).
- (1) Annual long-term equity award issued pursuant to the Issuer's non-employee director compensation plan.
- The shares represent a grant of Restricted Stock Units ("RSUs"). The RSUs represent a right to receive shares of the Issuer's common (2) stock, at no additional conversion or exercise price. The RSUs vest and settle in full on the earlier of (I) August 15, 2017 or (ii) immediately prior to the Issuer's next annual stockholder meeting.
- (3) The option shares vest and become exercisable in full on the earlier of (i) August 15, 2017 or (ii) immediately prior to the Issuer's next annual stockholder meeting.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Reporting Owners 2