FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

- 1							
	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

CONTROL A DA A S 6 T C		3. Issuer Name and Ticker or Trading Symbol ORGANOVO HOLDINGS, INC. [ONVO.PK]								
(Last) (First) (Middle) SPENCER TRASK			Relationship of Reporting Perso (Check all applicable) X Director	Person(s) to Issuer 10% Owner Other (specify below)		5. If Amendment, Date of Original Filed (Month/Day/Year)				
750 THIRD AVENUE 11TH FLOOR			Officer (give title below)			6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person				
(Street) NEW YORK NY 10017							y More than One			
(City) (State) (Zip)										
Table I - Non-Derivative Securities Beneficially Owned										
1. Title of Security (Instr. 4)			2. Amount of Securities Beneficially Owned (Instr. 4)			4. Nature of Indirect Beneficial Ownership (Instr. 5)				
Common Stock		582,524	D							
Common Stock		211,827	I By I		Pavilion Capital Partners, LLC ⁽¹⁾					
Common Stock		132,392	I B		By Piper Venture Partners, LLC ⁽¹⁾					
Common Stock		476,611	I By S		ST Neuroscience Partners, LLC ⁽¹⁾					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)										
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securiti Underlying Derivative Security	ty (Instr. 4) Conve		cise Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)			
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Price of Derivative Security	Direct (D) or Indirect (I) (Instr. 5)				
Warrant (right to purchase)	02/08/2012	10/18/2016	Common Stock	360,000	1	D				

Explanation of Responses:

1. The Reporting Person disclaims beneficial ownership of the Issuer's securities held indirectly for the purposes of Section 16, except to the extent of his indirect pecuniary interest therein, and this report shall not be deemed an admission that the Reporting Person is the beneficial owner of such securities for the purpose of Section 16 or for any other purpose.

ADAM STERN

03/13/2012

** 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 5 (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.