

The Securities and Exchange Commission has not necessarily reviewed the information in this filing and has not determined if it is accurate and complete.

The reader should not assume that the information is accurate and complete.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
FORM D

Notice of Exempt Offering of Securities

OMB APPROVAL

OMB Number: 3235-0076

Estimated average burden

hours per response: 4.00

1. Issuer's Identity

CIK (Filer ID Number)	Previous Names	None	Entity Type
<a href="#">0001497253</a>	REAL ESTATE RESTORATION & RENTAL, INC.		<input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Limited Liability Company <input type="checkbox"/> General Partnership <input type="checkbox"/> Business Trust <input type="checkbox"/> Other (Specify)
<b>Name of Issuer</b>			
ORGANOVO HOLDINGS, INC.			
<b>Jurisdiction of Incorporation/Organization</b>			
DELAWARE			
<b>Year of Incorporation/Organization</b>			
<input checked="" type="checkbox"/> Over Five Years Ago <input type="checkbox"/> Within Last Five Years (Specify Year) <input type="checkbox"/> Yet to Be Formed			

2. Principal Place of Business and Contact Information

Name of Issuer		Street Address 1		Street Address 2	Phone Number of Issuer
ORGANOVO HOLDINGS, INC.		6275 NANCY RIDGE DRIVE		SUITE 110	
City	State/Province/Country	ZIP/PostalCode	Phone Number of Issuer		
SAN DIEGO	CALIFORNIA	92121	858-550-9994		

3. Related Persons

Last Name	First Name	Middle Name
Murphy	Keith	
Street Address 1	Street Address 2	ZIP/PostalCode
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121
<b>Relationship:</b> <input checked="" type="checkbox"/> Executive Officer <input checked="" type="checkbox"/> Director <input type="checkbox"/> Promoter		

Clarification of Response (if Necessary):

Last Name	First Name	Middle Name
Baltera	Robert, Jr.	
Street Address 1	Street Address 2	ZIP/PostalCode
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121
<b>Relationship:</b> <input type="checkbox"/> Executive Officer <input checked="" type="checkbox"/> Director <input type="checkbox"/> Promoter		

Clarification of Response (if Necessary):

Last Name	First Name	Middle Name
Forgacs	Andras	
Street Address 1	Street Address 2	
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121
<b>Relationship:</b> Executive Officer X Director Promoter		

Clarification of Response (if Necessary):

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Last Name	First Name	Middle Name
Glover	James	T.
Street Address 1	Street Address 2	
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121
<b>Relationship:</b> Executive Officer X Director Promoter		

Clarification of Response (if Necessary):

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Last Name	First Name	Middle Name
Stern	Adam	K.
Street Address 1	Street Address 2	
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121
<b>Relationship:</b> Executive Officer X Director Promoter		

Clarification of Response (if Necessary):

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Last Name	First Name	Middle Name
Michaels	Barry	
Street Address 1	Street Address 2	
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121
<b>Relationship:</b> X Executive Officer Director Promoter		

Clarification of Response (if Necessary):

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Last Name	First Name	Middle Name
Presnell	Sharon	Collins
Street Address 1	Street Address 2	
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121
<b>Relationship:</b> X Executive Officer Director Promoter		

Clarification of Response (if Necessary):

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Last Name	First Name	Middle Name
David	Eric	Michael
Street Address 1	Street Address 2	
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121

**Relationship:** X Executive Officer Director Promoter

Clarification of Response (if Necessary):

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Last Name	First Name	Middle Name
Renard	Michael	
Street Address 1	Street Address 2	
6275 Nancy Ridge Drive	Suite 110	
City	State/Province/Country	ZIP/PostalCode
San Diego	CALIFORNIA	92121

**Relationship:** X Executive Officer Director Promoter

Clarification of Response (if Necessary):

#### 4. Industry Group

Agriculture	Health Care	Retailing
Banking & Financial Services	X Biotechnology	Restaurants
Commercial Banking	Health Insurance	Technology
Insurance	Hospitals & Physicians	Computers
Investing	Pharmaceuticals	Telecommunications
Investment Banking	Other Health Care	Other Technology
Pooled Investment Fund	Manufacturing	Travel
Is the issuer registered as an investment company under the Investment Company Act of 1940?	Real Estate	Airlines & Airports
Yes No	Commercial	Lodging & Conventions
Other Banking & Financial Services	Construction	Tourism & Travel Services
Business Services	REITS & Finance	Other Travel
Energy	Residential	Other
Coal Mining	Other Real Estate	
Electric Utilities		
Energy Conservation		
Environmental Services		
Oil & Gas		
Other Energy		

#### 5. Issuer Size

Revenue Range	OR	Aggregate Net Asset Value Range
No Revenues		No Aggregate Net Asset Value
\$1 - \$1,000,000		\$1 - \$5,000,000
\$1,000,001 - \$5,000,000		\$5,000,001 - \$25,000,000
\$5,000,001 - \$25,000,000		\$25,000,001 - \$50,000,000
\$25,000,001 - \$100,000,000		\$50,000,001 - \$100,000,000
Over \$100,000,000		Over \$100,000,000
X Decline to Disclose		Decline to Disclose
Not Applicable		Not Applicable

#### 6. Federal Exemption(s) and Exclusion(s) Claimed (select all that apply)

Rule 504(b)(1) (not (i), (ii) or (iii))

Rule 505

Rule 504 (b)(1)(i)  
Rule 504 (b)(1)(ii)  
Rule 504 (b)(1)(iii)

Rule 506  
Securities Act Section 4(5)  
Investment Company Act Section 3(c)  
Section 3(c)(1)                      Section 3(c)(9)  
Section 3(c)(2)                      Section 3(c)(10)  
Section 3(c)(3)                      Section 3(c)(11)  
Section 3(c)(4)                      Section 3(c)(12)  
Section 3(c)(5)                      Section 3(c)(13)  
Section 3(c)(6)                      Section 3(c)(14)  
Section 3(c)(7)

7. Type of Filing

New Notice    Date of First Sale 2012-12-21    First Sale Yet to Occur  
Amendment

8. Duration of Offering

Does the Issuer intend this offering to last more than one year?    Yes  No

9. Type(s) of Securities Offered (select all that apply)

<input type="checkbox"/> Equity	<input type="checkbox"/> Pooled Investment Fund Interests
<input type="checkbox"/> Debt	<input type="checkbox"/> Tenant-in-Common Securities
<input type="checkbox"/> Option, Warrant or Other Right to Acquire Another Security	<input type="checkbox"/> Mineral Property Securities
<input checked="" type="checkbox"/> Security to be Acquired Upon Exercise of Option, Warrant or Other Right to Acquire Security	<input type="checkbox"/> Other (describe)

10. Business Combination Transaction

Is this offering being made in connection with a business combination transaction, such as a merger, acquisition or exchange offer?    Yes  No

Clarification of Response (if Necessary):

11. Minimum Investment

Minimum investment accepted from any outside investor \$0 USD

12. Sales Compensation

Recipient	Recipient CRD Number	None
Aegis Capital Corp.	15007	
(Associated) Broker or Dealer <input checked="" type="checkbox"/> None	(Associated) Broker or Dealer CRD Number <input checked="" type="checkbox"/> None	
None	None	

**Street Address 1**

**Street Address 2**

810 Seventh Avenue, 18th Floor

City

State/Province/Country

ZIP/Postal Code

New York

NEW YORK

10019

State(s) of Solicitation (select all that apply)  
Check "All States" or check individual States

All States    Foreign/non-US

ARIZONA
CALIFORNIA
COLORADO
DELAWARE
FLORIDA

ILLINOIS
INDIANA
MARYLAND
MASSACHUSETTS
NEW JERSEY
NEW YORK
NORTH CAROLINA
PENNSYLVANIA
TEXAS
UTAH
WASHINGTON

### 13. Offering and Sales Amounts

Total Offering Amount      \$7,662,675 USD or Indefinite  
Total Amount Sold            \$7,662,675 USD  
Total Remaining to be Sold      \$0 USD or Indefinite

Clarification of Response (if Necessary):

### 14. Investors

Select if securities in the offering have been or may be sold to persons who do not qualify as accredited investors, and enter the number of such non-accredited investors who already have invested in the offering.

Regardless of whether securities in the offering have been or may be sold to persons who do not qualify as accredited investors, enter the total number of investors who already have invested in the offering:

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### 15. Sales Commissions & Finder's Fees Expenses

Provide separately the amounts of sales commissions and finders fees expenses, if any. If the amount of an expenditure is not known, provide an estimate and check the box next to the amount.

Sales Commissions            \$173,253 USD X Estimate  
Finders' Fees                    \$0 USD    Estimate

Clarification of Response (if Necessary):

### 16. Use of Proceeds

Provide the amount of the gross proceeds of the offering that has been or is proposed to be used for payments to any of the persons required to be named as executive officers, directors or promoters in response to Item 3 above. If the amount is unknown, provide an estimate and check the box next to the amount.

\$0 USD    Estimate

Clarification of Response (if Necessary):

The Issuer retained Aegis Capital Corp. to act as its Warrant Agent. Aegis Capital Corp. received 2% of the gross proceeds the Issuer raised. Adam K. Stern, one of the Issuer's directors, is the Head of Private Equity Banking at Aegis Capital.

### Signature and Submission

Please verify the information you have entered and review the Terms of Submission below before signing and clicking SUBMIT below to file this notice.

### Terms of Submission

In submitting this notice, each issuer named above is:

- Notifying the SEC and/or each State in which this notice is filed of the offering of securities described and undertaking to furnish them, upon written request, in the accordance with applicable law, the information furnished to offerees.\*

- Irrevocably appointing each of the Secretary of the SEC and, the Securities Administrator or other legally designated officer of the State in which the issuer maintains its principal place of business and any State in which this notice is filed, as its agents for service of process, and agreeing that these persons may accept service on its behalf, of any notice, process or pleading, and further agreeing that such service may be made by registered or certified mail, in any Federal or state action, administrative proceeding, or arbitration brought against the issuer in any place subject to the jurisdiction of the United States, if the action, proceeding or arbitration (a) arises out of any activity in connection with the offering of securities that is the subject of this notice, and (b) is founded, directly or indirectly, upon the provisions of: (i) the Securities Act of 1933, the Securities Exchange Act of 1934, the Trust Indenture Act of 1939, the Investment Company Act of 1940, or the Investment Advisers Act of 1940, or any rule or regulation under any of these statutes, or (ii) the laws of the State in which the issuer maintains its principal place of business or any State in which this notice is filed.
- Certifying that, if the issuer is claiming a Rule 505 exemption, the issuer is not disqualified from relying on Rule 505 for one of the reasons stated in Rule 505(b)(2)(iii).

Each Issuer identified above has read this notice, knows the contents to be true, and has duly caused this notice to be signed on its behalf by the undersigned duly authorized person.

For signature, type in the signer's name or other letters or characters adopted or authorized as the signer's signature.

<b>Issuer</b>	<b>Signature</b>	<b>Name of Signer</b>	<b>Title</b>	<b>Date</b>
ORGANOVO HOLDINGS, INC.	/s/ Barry Michaels	Barry Michaels	Chief Financial Officer	2013-01-03

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.

\* This undertaking does not affect any limits Section 102(a) of the National Securities Markets Improvement Act of 1996 ("NSMIA") [Pub. L. No. 104-290, 110 Stat. 3416 (Oct. 11, 1996)] imposes on the ability of States to require information. As a result, if the securities that are the subject of this Form D are "covered securities" for purposes of NSMIA, whether in all instances or due to the nature of the offering that is the subject of this Form D, States cannot routinely require offering materials under this undertaking or otherwise and can require offering materials only to the extent NSMIA permits them to do so under NSMIA's preservation of their anti-fraud authority.