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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

0rganov	o Holdings, Inc.
(Name of Issue	r)
Common Stock, \$	0.001 par value
(Title of Class of Sec	urities)
68620A1	
(CUSIP Number) October	9, 2019
(Date of Event Which Requires F	iling of this Statement)
Check the appropriate box to designate the rule Schedule is filed:	pursuant to which this
[X] Rule 13d-1(b)	
[_] Rule 13d-1(c)	
[_] Rule 13d-1(d)	
*The remainder of this cover page shall be fill initial filing on this form with respect to the and for any subsequent amendment containing in the disclosures provided in a prior cover page	e subject class of securities, formation which would alter
The information required in the remainder of the deemed to be "filed" for the purpose of Section Act of 1934 ("Act") or otherwise subject to the	18 of the Securities Exchange
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		(8) SHARED DISPOSITIVE POWER
		0
(9) AGGREGATE AMOUNT BENEF	ICIALLY OWNED BY EA	ACH REPORTING PERSON
	7,023,760	
(10) CHECK BOX IF THE AGGRE (SEE INSTRUCTIONS)	GATE AMOUNT IN ROW	(9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPR	ESENTED BY AMOUNT	IN ROW (9)
	5.38 %	
(12) TYPE OF REPORTING PERS	ON (SEE INSTRUCTION	vs)
	Page 2 of 8 page	ages
	Page 3 of 8 page	•
CUSIP NO. 68620A104	13G	Page 3 of 8 F
(1) NAMES OF REPORTING PER I.R.S. IDENTIFICATION		
RENAISSANCE TECHNOLOGI	ES HOLDINGS CORPOR	ATION 13-3127734
(2) CHECK THE APPROPRIATE (a) [_] (b) [_]	BOX IF A MEMBER OF	A GROUP (SEE INSTRUCTIONS)
(3) SEC USE ONLY		
4) CITIZENSHIP OR PLACE OF ORGANIZATION Delaware		(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED		7,023,760
BY EACH REPORTING PERSON WITH:		(6) SHARED VOTING POWER
		0
		(7) SOLE DISPOSITIVE POWER
		7,023,760
		(8) SHARED DISPOSITIVE POWER
		0
(9) AGGREGATE AMOUNT BENEF	ICIALLY OWNED BY EA	ACH REPORTING PERSON
	7,023,760	
(10) CHECK BOX IF THE AGGRE (SEE INSTRUCTIONS)	GATE AMOUNT IN ROW	(9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPR		
	5.38 %	
(12) TYPE OF REPORTING PERS	ON (SEE INSTRUCTION HC	NS)

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Item 1.

(a) Name of Issuer

Organovo Holdings, Inc.

(b) Address of Issuer's Principal Executive Offices.

6275 Nancy Ridge Drive, Suite 110, San Diego, CA 92121

Item 2.

(a) Name of Person Filing:

This Schedule 13G is being filed by Renaissance Technologies LLC ("RTC") and Renaissance Technologies Holdings Corporation ("RTHC").

(b) Address of Principal Business Office or, if none, Residence.

The principal business address of the reporting persons is:

800 Third Avenue New York, New York 10022

(c) Citizenship.

RTC is a Delaware limited liability company, and RTHC is a Delaware corporation.

(d) Title of Class of Securities.

Common Stock, \$0.001 par value

(e) CUSIP Number.

68620A104

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Item 3. If this statement is filed pursuant to Rule 13d-1(b) or 13-d-2(b) or (c), check whether the person filing is a:

- (a) [_] Broker or dealer registered under section 15 of the Act.
- (b) [_] Bank as defined in section 3(a)(6) of the Act.
- (c) [_] Insurance Company as defined in section 3(a)(19) of the Act.
- (d) [_] Investment Company registered under section 8 of the Investment Company Act.
- (e) [x] Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E).
- (g) [_] Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G).
- (h) [_] A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act.
- (i) [_] A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940.
- (j) [_] Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J).

Item 4. Ownership.

(a) Amount beneficially owned.

RTC: 7,023,760 shares

RTHC: 7,023,760 shares, comprising the shares beneficially owned by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 5.38 % RTHC: 5.38 %

- (c) Number of shares as to which the person has:
 - (i) sole power to vote or to direct the vote:

RTC: 7,023,760 RTHC: 7,023,760

- (ii) Shared power to vote or to direct the vote:
- (iii) sole power to dispose or to direct the disposition of:

RTC: 7,023,760 RTHC: 7,023,760

(iv) Shared power to dispose or to direct the disposition of:

RTC: 0 RTHC: 0

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Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: [_]

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Certain funds and accounts managed by RTC have the right to receive dividends and proceeds from the sale of the securities which are the subject of this report.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company.

Not applicable

Item 8. Identification and Classification of Members of the Group.

Not applicable

Item 9. Notice of Dissolution of a Group.

Not applicable

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Item 10. Certification

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 12, 2020

Renaissance Technologies LLC

By: /s/ James S. Rowen Chief Operating Officer

Renaissance Technologies Holdings Corporation

By: /s/ James S. Rowen Vice President

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001).

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EXHIBIT 99.1

AGREEMENT REGARDING JOINT FILING

UNDER RULE 13D-1(K) OF THE EXCHANGE ACT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended, each of the undersigned agrees to the filing on behalf of each of a Statement on Schedule 13G, and all amendments thereto, with respect to the shares of Common Stock, \$0.001 par value of Organovo Holdings, Inc.

Date: February 12, 2020

Renaissance Technologies LLC

By: /s/ James S. Rowen Chief Operating Officer

Renaissance Technologies Holdings Corporation

By: /s/ James S. Rowen Vice President

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