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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 2)*

		Organovo Holdings, Inc.
	(Name	of Issuer)
		Stock, \$0.001 par value
		s of Securities)
		68620A203
	(CUSIP	Number) December 31, 2021
		quires Filing of this Statement)
	k the appropriate box to designate dule is filed:	the rule pursuant to which this
	[X] Rule 13d-1(b)	
	[_] Rule 13d-1(c)	
	[_] Rule 13d-1(d)	
ini and	tial filing on this form with respe	be filled out for a reporting person's ct to the subject class of securities, ining information which would alter ver page.
deem Act of t	of 1934 ("Act") or otherwise subjec	Section 18 of the Securities Exchange t to the liabilities of that section other provisions of the Act (however,
CUST		
	NAMES OF REPORTING PERSONS.	
	I.R.S. IDENTIFICATION NOS. OF ABO	
	Renaissance Technologies LLC	26-0385758
(2)	CHECK THE APPROPRIATE BOX IF A MEM (a) [_] (b) [_]	BER OF A GROUP (SEE INSTRUCTIONS):
(3)	SEC USE ONLY	
 (4)	CITIZENSHIP OR PLACE OF ORGANIZATIO	N
(.)	Delaware	
	Detaware	(5) SOLE VOTING POWER
	NUMBER OF CHARES	
	NUMBER OF SHARES BENEFICIALLY OWNED	137,600
	BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
		0
		(7) SOLE DISPOSITIVE POWER

	(8) SHARED DISPOSITIVE POWER
	0
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY E	ACH REPORTING PERSON
194,287	
(10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS)	(9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED BY AMOUNT	IN ROW (9)
2.23 %	
(12) TYPE OF REPORTING PERSON (SEE INSTRUCTIO	NS)
Page 2 of 8 p	
Page 3 of 8 p	
CUSIP NO. 68620A203 13G	Page 3 of 8 Pag
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PER	SONS (ENTITIES ONLY).
RENAISSANCE TECHNOLOGIES HOLDINGS CORPOR	ATION 13-3127734
(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF (a) [_] (b) [_]	A GROUP (SEE INSTRUCTIONS)
(3) SEC USE ONLY	
(0) 020 002 01121	
(4) CITIZENSHIP OR PLACE OF ORGANIZATION	
Delaware	
	(5) SOLE VOTING POWER
NUMBER OF SHARES	137,600
BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(6) SHARED VOTING POWER
	0
	(7) SOLE DISPOSITIVE POWER
	194,287
	(8) SHARED DISPOSITIVE POWER
	0
(9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY E	ACH REPORTING PERSON
194,287	
(10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (SEE INSTRUCTIONS) [_]	(9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS REPRESENTED BY AMOUNT	IN ROW (9)
(II) I ENOLINI OI CEASS NEINESENTED DI ANGUNI	
2.23 %	

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Item 1.

(a) Name of Issuer

Organovo Holdings, Inc.

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

440 Stevens Ave, Suite 200, Solana Beach, CA 92075

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.

68620A203

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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.
- Bank as defined in section 3(a)(6) of the Act.
- (b) [_] Insurance Company as defined in section 3(a)(19) of the Act.
- Investment Company registered under section 8 of the Investment (d) [_]
- Investment Adviser in accordance with Sec.240.13d-1(b)(1)(ii)(E). (e) [x]
- (f) [_] Employee Benefit Plan or Endowment Fund in accordance with Sec. 240.13d-1(b)(1)(ii)(F).
- Parent holding company, in accordance with Sec.240.13d-1(b)(1)(ii)(G). (g) [₋
- A savings associations as defined in Section 3(b) of the Federal (h) [_] Deposit Insurance Act.
- A church plan that is excluded from the definition of an investment (i) [_] 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: 194,287 shares

shares, comprising the shares beneficially owned 194,287 RTHC: by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 2.23 % RTHC: 2.23 %

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

RTC: 137,600 RTHC: 137,600 (ii) Shared power to vote or to direct the vote:

9

(iii) sole power to dispose or to direct the disposition of:

RTC: 194,287 RTHC: 194,287

(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: [X]

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 10, 2022

Renaissance Technologies LLC

By: /s/ James S. Rowen Chief Operating Officer 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 10, 2022

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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