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

## SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 6)\*

Surmo	dics, Inc.
(Name of Iss	uer)
	\$0.05 par value
(Title of Class of S	ecurities)
86887	
(CUSIP Number	)
Decem	ber 31, 2021
(Date of Event Which Requires	Filing of this Statement)
Check the appropriate box to designate the ru Schedule is filed:	le 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 fi initial filing on this form with respect to and for any subsequent amendment containing the disclosures provided in a prior cover pa	the subject class of securities, information which would alter
The information required in the remainder of deemed to be "filed" for the purpose of Secti Act of 1934 ("Act") or otherwise subject to t of the Act but shall be subject to all other see the Notes).	on 18 of the Securities Exchange he liabilities of that section
CUSIP NO. 868873100 13G	Page 2 of 8 Pages
(1) NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PE	
Renaissance Technologies LLC 26-03	85758
(2) CHECK THE APPROPRIATE BOX IF A MEMBER OF (a) [_] (b) [_]	A GROUP (SEE INSTRUCTIONS):
(3) SEC USE ONLY	
(4) CITIZENSHIP OR PLACE OF ORGANIZATION	
Delaware	
	(5) SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	707,400
	(6) SHARED VOTING POWER
	0
	•
	(7) SOLE DISPOSITIVE POWER

		(8) SHARED DISPOSITIVE POWER
		0
(9) AGGREGATE AMOUNT BEN	NEFICIALLY OWNED BY E	ACH REPORTING PERSON
	719,638	
(10) CHECK BOX IF THE AGG (SEE INSTRUCTIONS)	GREGATE AMOUNT IN ROW	(9) EXCLUDES CERTAIN SHARES
		[_]
(11) PERCENT OF CLASS RE	PRESENTED BY AMOUNT	IN ROW (9)
	5.15 %	
(12) TYPE OF REPORTING PE IA	ERSON (SEE INSTRUCTIO	NS)
	Page 2 of 8 p	ages ====================================
	Page 3 of 8 p	ages
CUSIP NO. 868873100	13G	Page 3 of 8 Pag
(1) NAMES OF REPORTING F		SONS (ENTITIES ONLY).
RENAISSANCE TECHNOLO	GIES HOLDINGS CORPOR	ATION 13-3127734
(2) CHECK THE APPROPRIAT (a) [_] (b) [_]	E BOX IF A MEMBER OF	A GROUP (SEE INSTRUCTIONS)
Delaware  NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:		(5) SOLE VOTING POWER
		707,400
		(6) SHARED VOTING POWER
		0
		(7) SOLE DISPOSITIVE POWER
		719,638
		(8) SHARED DISPOSITIVE POWER
		0
(9) AGGREGATE AMOUNT BEN	HEFICIALLY OWNED BY E	ACH REPORTING PERSON
	719,638	
(10) CHECK BOX IF THE AGG (SEE INSTRUCTIONS)	GREGATE AMOUNT IN ROW	(9) EXCLUDES CERTAIN SHARES
(11) PERCENT OF CLASS RE		IN ROW (9)
	5.15 %	· ·
(12) TYPE OF REPORTING PE		 NS)
, , , , , , , , , , , , , , , , , , , ,	HC HC	,

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Item 1.

(a) Name of Issuer

Surmodics, Inc.

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

9924 West 74th Street, Eden Prairie, Minnesota 55344

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, \$0.05 par value

(e) CUSIP Number.

868873100

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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) [<sub>-</sub>
- 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: 719,638

shares, comprising the shares beneficially owned RTHC: 719,638 by RTHC, because of RTHC's majority ownership of RTC.

(b) Percent of Class.

RTC: 5.15 % RTHC: 5.15 %

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

RTC: 707,400 RTHC: 707,400

- (ii) Shared power to vote or to direct the vote:

RTC: 719,638 RTHC: 719,638

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

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

RTC: 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 11, 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, \$0.05 par value of Surmodics, Inc.

Date: February 11, 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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