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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 3)*

| CASELLA WASTE SYSTEMS, INC. |
|---|
| (Name of Issuer) |
| Class A common stock, \$0.01 par value per shar |
| (Title of Class of Securities) |
| 147448104 |
| (CUSIP Number) December 31, 2020 |
| (Date of Event Which Requires Filing of this Statement) |

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

[X] Rule 13d-1(b)

[_] Rule 13d-1(c)

[_] Rule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

| CUSI | P NO. | 147448104 | 13G | Page 2 of 8 Pages | | | |
|-------|---|-----------------|--------------------------------|----------------------|--|--|--|
| (1) | NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (entities only). | | | | | | |
| | Rena | issance Technol | ogies LLC 26-0385758 | | | | |
| (2) | CHECk (a) (b) | [_] [_] | E BOX IF A MEMBER OF A GROUP (| | | | |
| (3) | SEC USE ONLY | | | | | | |
| (4) (| CITIZE | NSHIP OR PLACE | OF ORGANIZATION | | | | |
| | Dela | ware | | | | | |
| | | | (5) SOL | E VOTING POWER | | | |
| | NUMBER OF SHARES BENEFICIALLY OWNED | | | 1,370,959 | | | |
| | BY EACH REPORTING PERSON WITH: | (6) SHA | RED VOTING POWER | | | | |
| | | | | 0 | | | |
| | | | (7) SO | LE DISPOSITIVE POWER | | | |

1,370,959

| (9) | AGGREGATE AMOUNT BENEFICIALLY OWNE | D BY EACH REPORTING PERSON | | | | |
|----------|---|--|--|--|--|--|
| | 1,370,959 |) | | | | |
| (10) | CHECK BOX IF THE AGGREGATE AMOUNT (SEE INSTRUCTIONS) | IN ROW (9) EXCLUDES CERTAIN SHARES | | | | |
| | | [_] | | | | |
| (11) | PERCENT OF CLASS REPRESENTED BY A | MOUNT IN ROW (9) | | | | |
| | 2.87 % | | | | | |
| | TYPE OF REPORTING PERSON (SEE INST IA | | | | | |
| : | | of 8 pages | | | | |
| | | of 8 pages | | | | |
| CUS | IP NO. 147448104 | 13G Page 3 of 8 Pages | | | | |
| (1) | NAMES OF REPORTING PERSONS. I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY). | | | | | |
| | RENAISSANCE TECHNOLOGIES HOLDINGS | CORPORATION 13-3127734 | | | | |
| (2) | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS) (a) [_] (b) [_] | | | | | |
| (3) | SEC USE ONLY | | | | | |
| (4) | CITIZENSHIP OR PLACE OF ORGANIZATIO | N | | | | |
| | Delaware | | | | | |
| | | (5) SOLE VOTING POWER | | | | |
| | NUMBER OF SHARES BENEFICIALLY OWNED | 1,370,959 | | | | |
| | BY EACH REPORTING PERSON WITH: | (6) SHARED VOTING POWER | | | | |
| | | Θ | | | | |
| | | (7) SOLE DISPOSITIVE POWER | | | | |
| | | 1,370,959 | | | | |
| | | (8) SHARED DISPOSITIVE POWER | | | | |
| | | Θ | | | | |
| (0) | ACCRECATE AMOUNT RENEETCIALLY OWNE | D BY EACH DEDODTING DEDSON | | | | |
| (5) | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | | | | |
| (10) | 1,370,959 CHECK BOX IF THE AGGREGATE AMOUNT | | | | | |
| | (SEE INSTRUCTIONS) [_] | | | | | |
| (11) | PERCENT OF CLASS REPRESENTED BY A | ERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) | | | | |
| 、 / | 2.87 % | . / | | | | |
| (12) | TYPE OF REPORTING PERSON (SEE INST | RUCTIONS) | | | | |
| | HC Page 3 | of 8 pages | | | | |
| ==== | ======================================= | | | | | |

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|--------------------|---|------------|
| Item 1. | | |
| (a) |) Name of Issuer | |
| | CASELLA WASTE SYSTEMS, INC. | |
| (b) |) Address of Issuer's Principal Executive Offices. | |
| | 25 Greens Hill Lane, Rutland, Vermont 05701 | |
| Item 2. | | |
| (a) |) Name of Person Filing: | |
| | This Schedule 13G is being filed by Renaissance Technologie ("RTC") and Renaissance Technologies Holdings Corporation (| |
| (b) | 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) | c) Citizenship. | |
| | RTC is a Delaware limited liability company, and RTHC is a Delaware corporation. | |
| (d) | d) Title of Class of Securities. | |
| | Class A common stock, \$0.01 par value per share | |
| (e) | e) CUSIP Number. | |
| | 147448104 | |
| | Page 4 of 8 pages | |
| Item 3. | If this statement is filed pursuant to Rule 13d-1(b) or 13-d or (c),check whether the person filing is a: | |
| (a) [_] (b) [_] | | |
| (c) [_] (d) [_] |] Insurance Company as defined in section 3(a)(19) of the Act | |
| (e) [x] | Company Act. | |
| (f) [_] | | |
| (g) [_] (h) [_] | | |
| (i) [_] | | |
| (j) [_] | company under section 3(c)(14) of the Investment Company Ac] Group, in accordance with Sec.240.13d-1(b)(1)(ii)(J). | t of 1940. |
| Item 4. | . Ownership. | |
| (a) |) Amount beneficially owned. | |
| | RTC: 1,370,959 shares RTHC: 1,370,959 shares, comprising the shares benefi by RTHC, because of RTHC's majority ownershi | |
| (b) |) Percent of Class. | |
| | RTC: 2.87 % RTHC: 2.87 % | |
| (c) |) Number of shares as to which the person has: | |
| | (i) sole power to vote or to direct the vote: | |
| | RTC: 1,370,959 RTHC: 1,370,959 | |
| | | |

(ii) Shared power to vote or to direct the vote: 0

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

RTC: 1,370,959 RTHC: 1,370,959

(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, 2021

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 Class A common stock, \$0.01 par value per share of CASELLA WASTE SYSTEMS, INC.

Date: February 10, 2021

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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