| SECURITIES ANI  | D EXCHANGE COM                               | MMISSION                    |
|---|--|-----------------------------|
| W   | ashington, D.C. 20549                        |                             |
|   | FORM 8-K                                     |                             |
|   | CURRENT REPORT                               |                             |
| Pursuant to Section 13 or   | · 15(d) of the Securities Exchan             | ge Act of 1934              |
| Date of Report (Date  | of earliest event reported): November        | 3, 2004                     |
| NOVOST  | E CORPORATI                                  | ON                          |
| (Exact name   | e of registrant as specified in its charter) |                             |
|   |  |                             |
| Florida<br>(State or other jurisdiction   | 0-20727<br>(Commission File Number)          | 59-2787476<br>(IRS Employer |
| of incorporation)   |  | Identification No.)         |
| 4350 International Blvd., Norcross, GA (Address of principal executive offices) |  | 30093<br>(Zip Code)         |

 $Registrant \ \ s \ telephone \ number, including \ area \ code: (770) \ 717-0904$ 

#### Not applicable

(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

#### Item 2.02. Results of Operations and Financial Condition

On November 3, 2004, Novoste Corporation (the Company ) issued a press release announcing the Company s earnings for the third quarter 2004. A copy of the release is furnished with this report as an exhibit to this Form 8-K.

Item 9.01. Financial Statements and Exhibits.

(c) Exhibits

The following exhibit is furnished pursuant to Item 2.02:

Exhibit 99.1: Earnings Release of Novoste Corporation dated November 3, 2004

#### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

#### **Novoste Corporation**

By: /s/ Subhash C. Sarda

Subhash C. Sarda

Acting Chief Financial Officer

Date: November 3, 2004

# EXHIBIT INDEX

| Exhibit No. | Description   |
|-------------|---|
|             |   |
| 99.1        | Earnings Release of Novoste Corporation dated November 3, 2004. |

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