NOVOSTE CORP /FL/ Form SC 13D/A September 08, 2005

> SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

> > SCHEDULE 13D (RULE 13d-101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULE 13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13d-2(a)

(Amendment No. 5)(1)

NOVOSTE CORPORATION

(Name of Issuer)

COMMON STOCK, \$0.01 PAR VALUE

(Title of Class of Securities)

67010C100

(CUSIP Number)

STEVEN WOLOSKY, ESQ. OLSHAN GRUNDMAN FROME ROSENZWEIG & WOLOSKY LLP Park Avenue Tower 65 East 55th Street New York, New York 10022 (212) 451-2300

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

September 7, 2005

(Date of Event Which Requires Filing of This Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box $/_/$.

NOTE. Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. SEE Rule 13d-7 for other parties to whom copies are to be sent.

(Continued on following pages)

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⁽¹⁾ 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 disclosures provided in a prior cover page.

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The information required on 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 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).