

MILLER LLOYD I III  
Form SC 13G/A  
February 09, 2006

SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, D.C. 20549

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SCHEDULE 13G  
(RULE 13d-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT  
TO RULES 13d-1(b) (c) AND (d) AND AMENDMENTS THERETO FILED  
PURSUANT TO RULE 13d-2(b)  
(AMENDMENT NO. 1)\*

Novoste Corporation

-----  
(Name of Issuer)

Common Stock

-----  
(Title of Class of Securities)

67010C209

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(CUSIP Number)

December 31, 2005

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(Date of Event which Requires Filing of this  
Statement)

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

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

Page 1 of 5

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\* 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.

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 ("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).

SCHEDULE 13G

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CUSIP NO. 67010C209

PAGE 2 OF 5 PAGES

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON

Lloyd I. Miller, III 279-42-7925

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\* (a) [ ]

(b) [ ]

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

United States

5 SOLE VOTING POWER

131,607

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH  
REPORTING  
PERSON  
WITH

6 SHARED VOTING POWER

183,814

7 SOLE DISPOSITIVE POWER

131,607

8 SHARED DISPOSITIVE POWER

183,814

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

315,421

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN  
SHARES\* [ ]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

7.7%

12 TYPE OF REPORTING PERSON

IN-IA-OO\*\*

\*SEE INSTRUCTIONS BEFORE FILLING OUT!

\*\* See Item 4.

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- Item 1(a). Name of Issuer: Novoste Corporation
- Item 1(b). Address of Issuers's Principal Executive Offices: 4350 International Blvd.  
Norcross, GA 30093
- Item 2(a). Name of Person Filing: Lloyd I. Miller, III
- Item 2(b). Address of Principal Business Office or, if None, Residence: 4550 Gordon Drive, Naples, Florida  
34102
- Item 2(c). Citizenship: U.S.A.
- Item 2(d). Title of Class of Securities: Common Stock
- Item 2(e). CUSIP Number: 67010C209
- Item 3. IF THIS STATEMENT IS FILED PURSUANT TO RULE 13d-1(b) OR 13d-2(b) or (c), CHECK WHETHER THE PERSON FILING IS A:
- Not Applicable, this statement is filed pursuant to 13d-1(c)
- Item 4. OWNERSHIP: The reporting person has sole voting and dispositive power with respect to 131,607 of the reported securities (i) as the manager of a limited liability company that is the general partner of a certain limited partnership and (ii) as an individual. The reporting person has shared voting and dispositive power with respect to 183,814 of the reported securities as an investment advisor to the trustee of certain family trusts.
- (a) 315,421
- (b) 7.7%
- (c) (i) sole voting power: 131,607  
(ii) shared voting power: 183,814  
(iii) sole dispositive power: 131,607  
(iv) shared dispositive power: 183,814
- Item 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS:
- Not Applicable
- Item 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON:
- Persons other than Lloyd I. Miller, III have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the reported securities.
- 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

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Item 9. NOTICE OF DISSOLUTION OF GROUP:

Not Applicable

Item 10. CERTIFICATION:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were 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.

Dated: February 9, 2006

/s/ Lloyd I. Miller, III

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Lloyd I. Miller, III