SECURITI	ES AND EXCHANGE COM	MISSION	
	Washington, D.C. 20549		
	FORM 8-K		
	CURRENT REPORT		
	Pursuant to Section 13 or 15(d) of		
	the Securities Exchange Act of 1934		
Date	e of Report (Date of earliest event reported) April 22, 20	004	
NOVOSTE CORPORATION (Exact name of registrant as specified in its charter)			
Florida (State or other jurisdiction	0-20727 (Commission File Number)	59-2787476 (IRS Employer	
of incorporation)		Identification)	
3890 Steve Reynolds Blvd., Norcross, GA 30093			

(Address of principal executive offices) (Zip Code)

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

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

Item 7. Financial Statements and Exhibits.

	(a)	Financial Statements
Not applicable.		able.

(b) Pro Forma Financial Information.

Not applicable.

(c) Exhibits.

Exhibit Number	Description
Item 99.1	Press Release Dated April 22, 2004

Item 9. Regulation FD Disclosure.

On April 22, 2004, Novoste Corporation (the Company) issued a press release announcing the Company s earnings for the first quarter 2004. A copy of the release is furnished with this report as an exhibit pursuant to Item 12 under Item 9 of this Form 8-K.

The copy of the Company s press release is included as Exhibit 99.1 to this Current Report on Form 8-K.

The information in this report (including Exhibit 99.1) is furnished pursuant to Item 9 of Form 8-K and shall not be deemed be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section. This report shall not be deemed an admission as to the materiality of any information contained herein that is required to be disclosed solely by Regulation FD.

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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.

Dated: April 22, 2004

NOVOSTE CORPORATION (Registrant)

By: /s/ SUBHASH C. SARDA

Subhash C. Sarda Acting Chief Financial Officer

EXHIBIT INDEX

Exhibit Number	Description
	
00 1	Proce Pologeo dated April 22 2004