

BOSTON SCIENTIFIC CORP  
Form SC 13G  
February 14, 2007

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

SCHEDULE 13G

INFORMATION STATEMENT PURSUANT TO RULES 13D-1 AND 13D-2  
UNDER THE SECURITIES EXCHANGE ACT OF 1934

(AMENDMENT NO. ) (1)

NORTHSTAR NEUROSCIENCES, INC.

(Name of Issuer)

Common Stock, \$0.001 par value per share

(Title or Class of Securities)

66704V101

(CUSIP Number)

December 31, 2006

(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)

(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 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 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).

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1 NAMES OF REPORTING PERSONS  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY)

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Boston Scientific Corporation

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

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

The State of Delaware

5 SOLE VOTING POWER
3,214,535
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH
6 SHARED VOTING POWER
0
7 SOLE DISPOSITIVE POWER
3,214,535
8 SHARED DISPOSITIVE POWER
0

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,214,535

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

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

12.6%

12 TYPE OF REPORTING PERSON\*

CO

\*SEE INSTRUCTIONS BEFORE FILLING OUT!

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ITEM 1(A). NAME OF ISSUER:

Northstar Neuroscience, Inc., a Washington corporation (the "Company")

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:

2401 Fourth Avenue, Suite 300  
Seattle, WA 98121

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ITEM 2(A). NAME OF PERSON FILING:

Boston Scientific Corporation

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:

One Boston Scientific Place  
Natick, MA 01760-1537

ITEM 2(C). CITIZENSHIP:

The State of Delaware

ITEM 2(D). TITLE OF CLASS OF SECURITIES:

Common Stock, \$0.001 par value per share, (the "shares")

ITEM 2(E). CUSIP NUMBER:

66704V101

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ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A:

- (a)  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b)  Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c)  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d)  Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- (e)  An investment adviser in accordance with ss.240.13d-1(b)(1)(ii)(E);
- (f)  An employee benefit plan or endowment fund in accordance with ss.240.13d-1(b)(1)(ii)(F);
- (g)  A parent holding company or control person in accordance with ss. 240.13d-1(b)(1)(ii)(G);
- (h)  A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i)  A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j)  Group, in accordance with ss.240.13d-1(b)(1)(ii)(J).

ITEM 4. OWNERSHIP:

- (a) Amount beneficially owned: 3,214,535 shares



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(Date)

By: /s/ Lawrence J. Knopf

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Name: Lawrence J. Knopf  
Title: Vice-President and Assistant  
General Counsel