

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

FORM 8-K

CURRENT REPORT PURSUANT
TO SECTION 13 OR 15(D) OF THE
SECURITIES EXCHANGE ACT OF 1934

Date of report (Date of earliest event reported)

December 26, 2007

STEREOTAXIS, INC.

(Exact Name of Registrant as Specified in Its Charter)

Delaware

(State or Other Jurisdiction of Incorporation)

000-50884

(Commission File Number)

94-3120386

(IRS Employer Identification No.)

4320 Forest Park Avenue, Suite 100, St. Louis, Missouri

(Address of Principal Executive Offices)

63108

(Zip Code)

(314) 678-6100

(Registrant's Telephone Number, Including Area Code)

(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 (see General Instruction A.2. below):

- 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 1.01. Entry into a Material Definitive Agreement

On December 26, 2007, Stereotaxis, Inc. (the "Company") entered into a Fourth Loan Modification Agreement (the "Agreement") with Silicon Valley Bank (the "Bank") to modify the terms of that certain Loan and Security Agreement, dated April 30, 2004, by and between the Company and the Bank, as amended (the "Original Agreement").

Although the Company was in compliance with all of its covenants, this change was made to favorably amend certain terms of the Original Agreement.

Item 8.01. Other Events

On December 20, 2007, the Company entered into an agreement with Philips Medical Systems to extend the term of its strategic alliance with the Company on an interim basis until March 1, 2008, to permit the parties to negotiate an agreement that will govern their alliance thereafter.

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.

STEREOTAXIS, INC.

Date: January 2, 2008

By: /s/ James M. Stolze
Name: James M. Stolze
Title: Vice President and Chief Financial Officer