



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

DIVISION OF  
CORPORATION FINANCE

June 15, 2012

Via E-mail

Michael P. Kaminski  
Chief Executive Officer  
Stereotaxis, Inc.  
4320 Forest Park Avenue, Suite 100  
St. Louis, Missouri 63108

**Re: Stereotaxis, Inc.  
Registration Statement on Form S-1  
Filed May 23, 2012  
File No. 333-181618**

Dear Mr. Kaminski:

We have limited our review of your registration statement to those issues we have addressed in our comments. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to this letter by amending your registration statement and providing the requested information. Where you do not believe our comments apply to your facts and circumstances or do not believe an amendment is appropriate, please tell us why in your response.

After reviewing your amendment to your registration statement and the information you provide in response to these comments, we may have additional comments.

Prospectus Summary, page 1

1. Please revise your summary to disclose and quantify your net loss for the fiscal year ended December 31, 2011 and your net loss for the fiscal year ended December 31, 2010.
2. Please revise your summary to disclose and quantify the amount of cash that you are spending per month and how long your present funds will last at your current monthly rate.

Exhibit 5.1

3. Investors are entitled to rely on the opinion that you file. Please file an opinion that does not include the reliance limitation mentioned in the first sentence of the last paragraph in this exhibit. See Staff Legal Bulletin No. 19 Section II.B.3.d.

Michael P. Kaminski  
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We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing include the information the Securities Act of 1933 and all applicable Securities Act rules require. Since the company and its management are in possession of all facts relating to a company's disclosure, they are responsible for the accuracy and adequacy of the disclosures they have made.

Notwithstanding our comments, in the event you request acceleration of the effective date of the pending registration statement please provide a written statement from the company acknowledging that:

- should the Commission or the staff, acting pursuant to delegated authority, declare the filing effective, it does not foreclose the Commission from taking any action with respect to the filing;
- the action of the Commission or the staff, acting pursuant to delegated authority, in declaring the filing effective, does not relieve the company from its full responsibility for the adequacy and accuracy of the disclosure in the filing; and
- the company may not assert staff comments and the declaration of effectiveness as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

Please refer to Rules 460 and 461 regarding requests for acceleration. We will consider a written request for acceleration of the effective date of the registration statement as a confirmation of the fact that those requesting acceleration are aware of their respective responsibilities under the Securities Act of 1933 and the Securities Exchange Act of 1934 as they relate to the proposed public offering of the securities specified in the above registration statement. Please allow adequate time for us to review any amendment prior to the requested effective date of the registration statement.

Please contact Tom Jones at (202) 551-3602 or me at (202) 551-3617 with any questions.

Sincerely,

/s/ Russell Mancuso

Russell Mancuso  
Branch Chief

cc (via e-mail): Robert J. Endicott, Esq.