

Mail Stop 6010

April 4, 2008

James A. Bianco, M.D.  
President and Chief Executive Officer  
Cell Therapeutics, Inc.  
501 Elliott Avenue West, Suite 400  
Seattle, WA 98119

**Re: Cell Therapeutics, Inc.  
Registration Statement on Form S-3  
Filed 3/31/2008  
File Number 333-149982**

Dear Dr. Bianco:

We have reviewed your filing and have the following comment. Where indicated, we think you should revise your document in response to this comment. If you disagree, we will consider your explanation as to why our comment is inapplicable or a revision is unnecessary. Please be as detailed as necessary in your explanation.

Form S-3

Where You Can Find More Information, page 39

1. We note that the Form 10-K for the Fiscal Year Ended December 31, 2007 incorporates by reference the Part III information which will be provided in your proxy statement. Please note we will not be in a position to make your filing effective until this information is filed. You may amend your Form 10-K to include this information, or wait until after your proxy statement has been filed to request acceleration.

\* \* \*

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filings reviewed by the staff to be certain that they have provided all information investors require for an informed decision. 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 the company requests acceleration of the effective date of the pending registration statement, it should furnish a letter, at the time of such request, 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 this action as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

In addition, please be advised that the Division of Enforcement has access to all information you provide to the staff of the Division of Corporation Finance in connection with our review of your filing or in response to our comments on your filing.

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. We will act on the request and, pursuant to delegated authority, grant acceleration of the effective date.

Please contact Rose Zukin at (202) 551-3239 or me at (202) 551-3710 with any questions.

Sincerely,

Jeffrey P. Riedler  
Assistant Director

cc: Karen A. Dempsey, Esq.  
Donna Cochener, Esq.  
Heller Ehrman LLP  
333 Bush Street  
San Francisco, CA 94104