

Mail Stop 6010

March 27, 2008

Mr. Russell H. Plumb
President and Chief Executive Officer
Inhibitex, Inc.
9005 Westside Parkway
Alpharetta, Georgia 30004

Re: Inhibitex, Inc.
Form S-3
Filed 3/20/2008
File No. 333-149843

Dear Mr. Plumb:

We have limited our review of your filing to those issues we have addressed in our comments. Where indicated, we think you should revise your document in response to these comments. 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. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure. After reviewing this information, we may raise additional comments.

Please understand that the purpose of our review process is to assist you in your compliance with the applicable disclosure requirements and to enhance the overall disclosure in your filing. We look forward to working with you in these respects. We welcome any questions you may have about our comments or any other aspect of our review. Feel free to call us at the telephone numbers listed at the end of this letter.

Selling Stockholders, page 20.

1. We note that several of your selling stockholders are listed as non-natural persons. Please identify the natural persons who have voting and investment control over the shares being registered that are held by non-natural persons.

Incorporation by reference, page 24.

2. We note that your registration statement incorporates by reference your annual Report on Form 10-K for the year ended December 31, 2007. This filing does not contain the Part III information that is required by Form 10-K. Please amend your Form S-3 filing, amend your Form 10-K filing, or file a Proxy Statement to include the required Part III information. Your filing must be complete before we take final action on the registration statement.

Signatures, page II-4.

3. We note that your registration statement does not include the signature of your controller or principal accounting officer. Please include this signature in an amended Form S-3. If Russell H. Plumb, your chief executive officer and chief financial officer, is also your controller or principal accounting officer please indicate beneath his signature that he is signing the Form S-3 as principal executive officer, principal financial officer, and principal accounting officer. See Instructions 1 and 2 to the Signatures section of Form S-3.

* * *

As appropriate, please amend your registration statement in response to these comments. You may wish to provide us with marked copies of the amendment to expedite our review. Please furnish a cover letter with your amendment that keys your responses to our comments and provides any requested information. Detailed cover letters greatly facilitate our review. Please understand that we may have additional comments after reviewing your amendment and responses to our comments.

We urge all persons who are responsible for the accuracy and adequacy of the disclosure in the filing to be certain that the filing includes all information required under the Securities Act of 1933 and that they have provided all information investors require for an informed investment 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 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.

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 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.

We direct your attention to Rules 460 and 461 regarding requesting acceleration of a registration statement. Please allow adequate time after the filing of any amendment for further review before submitting a request for acceleration. Please provide this request at least two business days in advance of the requested effective date.

Please contact Bryan Pitko at (202) 551-3203 or me at (202) 551-3715 with any questions.

Sincerely,

Jeffrey P. Riedler
Assistant Director

cc: David S. Rosenthal, Esq.
Dechert LLP
30 Rockefeller Plaza
New York, New York 10112
(212) 698-3500