Via Facsimile and U.S. Mail Mail Stop 6010

June 4, 2005

Stephen B. ThompsonChief Financial OfficerAccess Pharmaceuticals, Inc.2600 Stemmons Freeway, Suite 176Dallas, Texas 75207

Re: Access Pharmaceuticals, Inc. Registration Statement on Form S-1 Filed May 31, 2005 File No. 333-125349

Dear Mr. Thompson:

This is to advise you that we have undertaken a limited review

of the above referenced registration statement and have the following

comment. After and issues that arise during our examination of the

request have been satisfied, we will consider your request for acceleration of the effective date of the registration statement.

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 supplemental information so we may better understand your disclosure.

After reviewing this information, we may or may not raise additional

comments.

1. We note the filing does not include the signature of your principal financial officer and principal accounting officer. Please

include these signatures in your amended Form S-1. If Stephen B. Thompson serves as both, his signature should be captioned as such in

your amended filing. See Instructions 1 and 2 to the Signatures section of Form S-1.

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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 supplemental 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 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.

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 Albert Lee at (202) 551-3654 or me at (202) 551-

3715 with any questions.

Sincerely,

Jeffrey P. Riedler Assistant Director Bingham McCutchen LLP 150 Federal Street Boston, MA 02110

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