



DIVISION OF
CORPORATION FINANCE

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

September 8, 2011

Via E-mail

Scott Horvitz
Chief Financial Officer
Redpoint Bio Corporation
7 Graphics Drive
Ewing, New Jersey 08628

**Re: Redpoint Bio Corporation
Form 10-K for the Fiscal Year Ended December 31, 2010
Filed March 4, 2011, as amended on May 12, 2011
File No. 000-51708**

Dear Mr. Horvitz:

We have completed our review of your filing. We remind you that our comments or changes to disclosure in response to our comments do not foreclose the Commission from taking any action with respect to the company or the filing and the company may not assert staff comments as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States. 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 the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Daniel Greenspan for

Jeffrey P. Riedler
Assistant Director

cc: Scott A. Cowan (DLA Piper LLP)