



DIVISION OF
CORPORATION FINANCE

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

October 27, 2010

Dr. Paul J. Maddon, M.D., Ph.D.
Chief Executive Officer
Progenics Pharmaceuticals, Inc.
777 Old Saw Mill River Road
Tarrytown, New York 10591

Re: Progenics Pharmaceuticals, Inc.
Form 10-K for the fiscal year ended December 31, 2009
Filed March 15, 2010
File No. 000-23143

Dear Dr. Maddon:

We have completed our review of your form 10-K and related filings and have no further comments at this time.

Sincerely,

Jeffrey Riedler
Assistant Director

cc: Donald J. Murray, Esq.
Dewey & LeBoeuf LLP
1301 Avenue of the Americas
New York, New York 10019-6092