



DIVISION OF
CORPORATION FINANCE

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

October 4, 2011

Via E-mail

Dr. Barry Quart
President and Chief Executive Officer
Ardea Biosciences, Inc.
4939 Directors Place
San Diego, CA 92121

Re: Ardea Biosciences, Inc.
Form 10-K for the Year Ended December 31, 2010
Filed March 11, 2011
File No. 001-33734

Dear Dr. Quart:

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/ Gus Rodriguez

Gus Rodriguez
Accounting Branch Chief