



DIVISION OF
CORPORATION FINANCE

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

September 20, 2011

Via E-Mail

Mr. Graham Hetherington
Chief Financial Officer
Shire PLC
5 Riverwalk
Citywest Business Campus
Dublin 24, Republic of Ireland

Re: Shire PLC
Form 10-K for the Fiscal Year Ended December 31, 2010
Filed February 23, 2011
File No. 000-29630

Dear Mr. Hetherington:

We have completed our review of your filings. 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 filings 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 filings to be certain that the filings include the information the Securities Exchange Act of 1934 and all applicable rules require.

Sincerely,

/s/ Melissa N. Rocha

Melissa N. Rocha
Accounting Branch Chief