



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

DIVISION OF
CORPORATION FINANCE

Via E-Mail

April 20, 2012

James L. Gallogly, CEO
LyondellBasell Industries N.V.
Weena 737
3013 AM Rotterdam
The Netherlands

**Re: LyondellBasell Industries N.V.
December 31, 2011 Form 10-K filed February 29, 2012
File No.1-34726**

Dear Mr. Gallogly:

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/ Terence O'Brien

Terence O'Brien
Accounting Branch Chief