

UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549-4628

April 14, 2010

Via U.S. Mail & Facsimile

Mr. David M. Demshur Chief Executive Officer Core Laboratories N.V. Herengracht 424 1017 BZ Amsterdam The Netherlands

Re: Core Laboratories N.V. Preliminary Proxy Statement Filed March 15, 2010 File No. 1-14273

Dear Mr. Demshur:

We have completed our review of your filing and have no further comments at this time.

Sincerely,

Anne Nguyen Parker Branch Chief