

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

April 5, 2011

Mr. Peter Riehl Chief Executive Officer Stellar Pharmaceuticals, Inc. 544 Egerton St London, Ontario, Canada N58 3Z8

Re: Stellar Pharmaceuticals, Inc.

Form 10-K for the Year Ended December 31, 2009

Filed March 30, 2010 File No. 000-31198

Dear Mr. Riehl:

We have completed our review of the above referenced filing and have no further comments at this time.

Sincerely,

Melissa N. Rocha Branch Chief