



DIVISION OF  
CORPORATION FINANCE

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

March 29, 2019

Natasha Giordano  
Chief Executive Officer  
PLx Pharma Inc.  
8285 El Rio Street, Suite 130  
Houston, TX 77054

**Re: PLx Pharma Inc.**  
**Registration Statement on Form S-3**  
**Filed March 25, 2019**  
**File No. 333-230478**

Dear Ms. Giordano:

This is to advise you that we have not reviewed and will not review your registration statement.

Please refer to Rules 460 and 461 regarding requests for acceleration. We remind you that the company and its management are responsible for the accuracy and adequacy of their disclosures, notwithstanding any review, comments, action or absence of action by the staff.

Please contact Sonia Bednarowski at 202-551-3666 with any questions.

Sincerely,

Division of Corporation Finance  
Office of Healthcare & Insurance