



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

DIVISION OF  
CORPORATION FINANCE

Mail Stop 3561

May 31, 2017

Via E-mail

John Roberts  
Chief Operating Officer  
Cancer Genetics, Inc.  
201 Route 17 North, 2<sup>nd</sup> Floor  
Rutherford, NJ 07070

**Re: Cancer Genetics, Inc.  
Registration Statement on Form S-3  
Filed May 25, 2017  
File No. 333-218229**

Dear Mr. Roberts:

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 Michael Killoy at (202) 551-7576 with any questions.

Sincerely,

/s/ James Lopez (for)

John Reynolds  
Assistant Director  
Office of Beverages, Apparel,  
And Mining

cc: Alan Wovsaniker, Esq.  
Lowenstein Sandler LLP