



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

DIVISION OF
CORPORATION FINANCE

Mail Stop 3030

May 4, 2017

Via E-mail

Jarrett Gorlin
Chief Executive Officer
MedoveX Corporation
1950 Airport Road, Suite A
Atlanta, GA 30341

**Re: MedoveX Corporation
Registration Statement on Form S-3
Filed April 18, 2017
File No. 333-217346**

Dear Mr. Gorlin:

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 Heather Percival at (202) 551-3498 with any questions.

Sincerely,

/s/ Heather Percival for

Amanda Ravitz
Assistant Director
Office of Electronics and Machinery

cc: Arthur S. Marcus, Esq.
Sichenzia Ross Ference Kesner LLP