



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

DIVISION OF  
CORPORATION FINANCE

September 11, 2019

David L. Lucchino  
Chief Executive Officer  
Frequency Therapeutics, Inc.  
19 Presidential Way, 2nd Floor  
Woburn, MA 01801

**Re: Frequency Therapeutics, Inc.  
Draft Registration Statement on Form S-1  
Exhibit Nos. 10.10, 10.11 and 10.12  
Submitted August 22, 2019  
File No. 377-02740**

Dear Mr. Lucchino:

We have concluded our assessment of your redacted exhibits for compliance with applicable form requirements and will process your supplemental response and related materials in accordance with your request.

Sincerely,

Division of Corporation Finance