

January 22, 2021

Keith Murphy
Executive Chairman
Organovo Holdings, Inc.
440 Stevens Ave, Suite 200
Solana Beach, CA 92075

Inc.

Statement on Form S-3

2021

Re: Organovo Holdings,

Registration

Filed January 19,

File No. 333-252224

Dear Mr. Murphy:

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.

Sarmento at 202-551-3798 with any questions.

Please contact Ada D.

Sincerely,

Division of Corporation Finance

Office of Life Sciences

cc:
Esq.

Jeffrey T. Hartlin,