April 16, 2024

Peter M. Carlson Chief Executive Officer Spectral AI, Inc. 2515 McKinney Avenue, Suite 1000 Dallas, TX 75201

Re: Spectral AI, Inc.
Registration

Statement on Form S-1

2024

Filed April 10,

File No. 333-278610

Dear Peter M. Carlson:

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 Benjamin

Richie at 202-551-7857 with any questions.

Sincerely,

Division of Corporation Finance

Office of Industrial Applications and

Services

cc: Herbert F. Kozlov