

January 27, 2023

Eric Lefkofsky  
Chief Executive Officer  
Tempus Labs, Inc.  
600 West Chicago Avenue, Suite 510  
Chicago, Illinois 60654

Re: Tempus Labs, Inc.  
Amendment No. 5 to  
Submitted January  
CIK No. 0001717115

Draft Registration Statement on Form S-1  
17, 2023

Dear Eric Lefkofsky:

We have reviewed your amended draft registration statement and have the following comment. In our comment, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to this letter by providing the requested information and either submitting an amended draft registration statement or publicly filing your registration statement on EDGAR. If you do not believe our comment applies to your facts and circumstances or do not believe an amendment is appropriate, please tell us why in your response.

After reviewing the information you provide in response to this comment and your amended draft registration statement or filed registration statement, we may have additional comments.

Amendment No. 5 to Draft Registration Statement on Form S-1

Consolidated Financial Statements  
9. Stock-Based Compensation, page F-34

1. We note your response to comment 1 from our letter dated October 27, 2022. Please revise to your disclosures here, on pages 126-127, and elsewhere as appropriate, to explain the change in your valuation methodology for stock-based compensation awards during the periods presented.

Eric Lefkofsky  
FirstName LastNameEric Lefkofsky  
Tempus Labs, Inc.  
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January 27,NameTempus  
2023 Labs, Inc.

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Page 2 27, 2023 Page 2  
FirstName LastName

You may contact Lisa Etheredge, Senior Staff Accountant, at 202-551-3424 or Robert Littlepage, Accounting Branch Chief, at 202-551-3361 if you have questions regarding comments on the financial statements and related matters. Please contact Kyle Wiley, Staff Attorney, at 202-344-5791 or Jan Woo, Legal Branch Chief, at 202-551-3453 with any other questions.

Sincerely,

Division of

Corporation Finance

Office of Technology

cc: Courtney Tygesson