

November 15, 2022

Brian C. White  
Chief Financial Officer  
Ambarella, Inc.  
3101 Jay Street  
Santa Clara, California 95054

Re: Ambarella, Inc.  
Form 10-K for the

Fiscal Year Ended January 31, 2022

Filed April 1, 2022  
File No. 001-35667

Dear Brian C. White:

We have limited our review of your filing to the financial statements and related disclosures and have the following comments. In some of our comments, we may ask you to provide us with information so we may better understand your disclosure.

Please respond to these comments within ten business days by providing the requested information or advise us as soon as possible when you will respond. If you do not believe our comments apply to your facts and circumstances, please tell us why in your response.

After reviewing your response to these comments, we may have additional comments.

Form 10-K for the Fiscal Year Ended January 31, 2022

Management's Discussion and Analysis of Financial Condition and Results of Operations  
Results of Operations, page 54

1. Please revise the discussion in future filings to describe the impact of the supply chain issues your company is having on your results of operations. Also, discuss any known trends or uncertainties on your results. Refer to Item 303(b)(2) of Regulation S-K. In this regard, we note that your management has been discussing the impact of supply chain issues during each of your last three quarterly earnings calls.

2. Revise your future filings to also discuss the changes in your revenue (i.e., increase or decrease) by volume and price. Refer to Item 303(b)(2)(iii) of Regulation S-K. In this regard, we note that your management has been providing similar information during each of your last three quarterly earnings calls.

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3. In future filings, expand your disclosure to identify specific actions planned or taken, if any, to mitigate inflationary pressures.  
Notes to the Consolidated Financial Statements  
Revenue Recognition, page 81

4. We note that during each of your last three quarterly earnings calls your management discussed your revenues by products and end-market. Please tell us your consideration of ASC 606-10-50-5 and 50-6, which call for disclosing disaggregated revenue by product or product families and end-market, in concluding that similar information should not be provided in this note. Otherwise, revise your future filings to

comply. Similarly, revise  
your MD&A in future filings to provide a more detailed discussion of  
revenues by  
products and end-market.

In closing, 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.

You may contact Andri Carpenter at 202-551-3645 or Martin James, Senior  
Advisor, at  
202-551-3671 with any questions.

FirstName LastNameBrian C. White  
Comapany NameAmbarella, Inc.

Corporation Finance  
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Manufacturing  
FirstName LastName

Sincerely,

Division of

Office of