

September 21, 2021

Arthur Cohen  
Chief Executive Officer  
HealthCor Catalio Acquisition Corp.  
55 Hudson Yards, 28th Floor  
New York, NY 10001

Acquisition Corp.  
Statement on Form S-4  
2021

Re: HealthCor Catalio  
Registration  
Filed August 30,  
File No. 333-259148

Dear Mr. Cohen:

We have reviewed your registration statement 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 this letter by amending your registration statement and providing the requested information. If you do not believe our comments apply to your facts and circumstances or do not believe an amendment is appropriate, please tell us why in your response.

After reviewing any amendment to your registration statement and the information you provide in response to these comments, we may have additional comments.

Registration Statement on Form S-4 Filed August 30, 2021

The Business Combination Agreement  
Background of the Business Combination, page 111

1. We note your response to prior comment 7 but are unable to locate changes addressing the comment. As previously requested, please revise the Background of the Business Combination section to identify the representatives of Hyperfine, Liminal and/or Catalyzer who were involved in discussions with HealthCor and/or Jefferies throughout the course of the negotiations.

2. We note the revisions made in response to prior comment 10 and we reissue the comment in part. Please expand to clarify why HealthCor's model reflected a materially reduced valuation (\$570 million) of Hyperfine and Liminal as compared to the one initially

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proposed on April 13 by Hyperfine and Liminal (in excess of \$800 million).

3. We note your response to prior comment 13 but are unable to locate changes addressing the comment. As previously requested, please revise the April 13 entry to clarify the actual combined dollar valuation proposed by Hyperfine and Liminal, and tell us whether that proposal provided separate valuations for Hyperfine and Liminal.

4. We note your response to comment 15. Please address the following:

It appears that one of the material assumptions underlying projected revenue growth is the expected recurring revenue from the subscription-based business. Specifically, as the base of installed units grows, the cumulative carry-over effect will result in increased revenue each successive year as the business continues to grow. Please

further expand your disclosures to further discuss the assumptions underlying the different projected revenue streams, which appear to be unit sales and subscription-based services; and

As previously requested, please explain how management and the Board considered and relied upon these projections, particularly in light of the limited historical

commercial operations of Hyperfine, Inc. and Liminal Sciences, Inc.

5. We note your response to prior comments 17, 18 and 19 but are unable to locate changes

that address the comments. As previously requested, please revise to address the following:

Clarify whether the financial projections disclosed here were the only projections or

material financial information that Hyperfine and Liminal presented to the HealthCor board for purposes of negotiating the terms of the Business Combination Agreement.

If not, please disclose such information, forecasts and/or projections;

Describe how the parties were able to negotiate what proved to be the final valuations

and reach agreement on other material terms in May if HealthCor did not receive

financial projections from Hyperfine and Liminal until June 10;

Disclose what the HealthCor board did with the projections it received and whether it

used these same projections, or altered ones, in its financial model(s) and analyses.

Recommendation of HealthCor's Board of Directors, page 124

6. We note your response to prior comment 20 but are unable to locate changes made in

response. As previously requested, please revise to clarify here whether HealthCor's

Board conducted any financial analysis or analyses that support its determination that the

merger is in the best interests of shareholders and its recommendation to vote for the

business combination, or advise.

U.S. Federal Income Tax Considerations, page 153

7. We note the revisions you made in response to prior comment 21. We further note that

counsel does not appear to opine on whether or not HealthCor is likely to be classified as a

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PFIC and, if so, what the material tax consequences to U.S. Holders will be. Counsel's

opinion should not assume the tax consequence at issue or any legal conclusion

underlying the opinion. Please revise the tax opinion and related sections accordingly.

Refer to Staff Legal Bulletin No. 19, Part III.C.3 for guidance.

Unaudited Pro Forma Condensed Combined Financial Information, page 164

8. We note your response to comment 27. It appears that the pro forma statements of

operations do not include certain expenses that are not expected to have a continuing

impact, including nonrecurring management compensation expense discussed in Notes

3(h) and (i) on page 174 and transaction costs discussed in Note 3(b) on page 171. We

remind you of the updated pro forma financial information guidance provided in SEC Release 33-10786, which amended Article 11 of Regulation S-X, under which it would appear these expenses should be reflected in your pro forma statements of operations. Please revise your pro forma statements of operations or further advise. Refer to 11-02 (a)(6)(i)(B) of Regulation S-X.

9. We note your response to comment 28. The most significant adjustments on your pro forma statements of operations are for compensation expense related to various equity awards. In this regard, please address the following: We continue to believe additional disclosures should be provided to discuss the most significant underlying assumptions used to determine the compensation expense in Note 3(f), 3(g), and 3(h)(2). For example in Note 3(f), you note that the grant date fair value of the awards were estimated using the Monte Carlo simulation; however it is not clear what significant assumptions were used in the simulation to arrive at the grant date fair value; and It appears that adjustment 3(f) only reflects certain Earn-Out shares discussed on page 168. Please further clarify in your disclosures the amount of shares included in this adjustment as well as how you determined which shares to include.

10. We note your response to comment 36. Your response indicates that the only recent equity issuances were Hyperfine options granted in April 2021 and Liminal options granted in May 2021. As previously requested, please help us better understand how the fair value of the common stock of Hyperfine and Liminal which was used to value these issuances reconciles to the valuations as indicated based on the terms of the Business Combination. Please also clarify whether these are the options discussed in Note 3(h)(2) to the pro forma statements of operations.

Business of Hyperfine and Liminal, page 183  
FirstName LastNameArthur Cohen  
11. We note your response to prior comment 31 related to the principal purposes for the Comapany NameHealthCor business combinationCatalio Acquisition and PIPE proceeds.Corp. Please expand your disclosure to describe the approximate September 21, 2021 amount Page 3 intended for each such purpose.

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Potential market expansion, page 190

12. We note the revisions you made in response to prior comment 32 on pages 195 and 196, in particular the disclosure in the second paragraph on page 196 that "Liminal has not commercialized or obtained regulatory authorization for any of its products and its operations to date have been limited to developing its technology and products." Please expand your disclosure to provide potential investors an adequate basis for assessing where you believe you are in the development and regulatory approval process with respect to your expansion opportunities in the area of a brain sensing

platform and MRI  
robotic guided intervention.  
Exclusive License Agreements with The General Hospital Corporation (d/b/a  
Massachusetts  
General Hospital), page 207

13. We note your response to prior comment 34 that Hyperfine will be  
obligated to pay MGH  
a percentage "in the low double digits." Please revise to disclose the  
rate Hyperfine will  
be obligated to pay within a ten percentage point range.  
Management Following the Business Combination, page 241

14. We note your response to prior comment 30. Please revise to clarify  
whether any of the  
executive officers or directors following the business combination  
have worked with the  
Liminal business and how many current Liminal executive officers and  
directors will join  
the combined company.  
Basis of Presentation and Principles of Combination, page F-38

15. We note your response to comment 38. Please also confirm that  
Hyperfine and Liminal  
were under common control for the entire periods for which combined  
financial  
statements have been presented.  
Note 2. Summary of Significant Accounting Policies  
Inventories, page F-41

16. We note your response to comment 39. Please address the following:  
Your disclosures on page F-49 indicate that manufacturing overhead  
costs primarily  
include the allocation of labor costs incurred related to  
inventory acquired or  
produced but not sold during the respective period. Please better  
clarify the nature of  
these labor costs; and  
Please help us better understand why charges associated with  
writing inventory down  
to lower of cost or net realizable value are also included in  
overheads rather than  
being recorded directly in cost of sales.  
As previously requested, please explain herein or within  
Management's Discussion  
and Analysis, why you had \$213,000 write down in inventory during  
the year ended  
December 31, 2020 as this inventory was purchased during the same  
period.

Refer to ASC 330-10-30.  
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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.

Refer to Rules 460 and 461 regarding requests for acceleration. Please  
allow adequate  
time for us to review any amendment prior to the requested effective date of  
the registration  
statement.

You may contact Nudrat Salik at 202-551-3692 or Jeanne Baker at  
202-551-3691 if you  
have questions regarding comments on the financial statements and related  
matters. Please  
contact David Gessert at 202-551-2326 or Joe McCann at 202-551-6262 with any  
other  
questions.

FirstName LastNameArthur Cohen  
Corporation Finance

Sincerely,  
Division of

Sciences

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cc: Debbie P. Yee, P.C.

FirstName LastName