Jeffrey Finer, M.D, Ph.D. President and Chief Executive Officer Septerna, Inc. 250 East Grand Avenue South San Francisco, CA 94080

Re: Septerna, Inc.

Draft Registration Statement on Form S-1
Submitted on August 2, 2024

CIK No. 0001984086

Dear Jeffrey Finer M.D, Ph.D.:

We have reviewed your draft registration statement and have the following comments.

Please respond to this letter by providing the requested information and either submitting $\ensuremath{\mathsf{I}}$

an amended draft registration statement or publicly filing your registration statement on ${\tt EDGAR}$.

If you do not believe a comment applies to your facts and circumstances or do not believe an $% \left(1\right) =\left(1\right) +\left(1\right$

amendment is appropriate, please tell us why in your response.

After reviewing the information you provide in response to this letter and your amended $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

draft registration statement or filed registration statement, we may have additional comments.

Draft Registration Statement on Form S-1 Prospectus Summary Overview, page 1

1. Please delete the overly speculative statements included in the Summary and throughout

your filing. Given the early stage of your candidates development, your unproven, novel

technologies, the limited evidence supporting the feasibility of developing therapeutic $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

treatments based on your platform, and the number of other companies focused on $\ensuremath{\mathsf{GPCRs}}$

and platform technologies, these statements are do not appear supportable. Illustrative

examples include:

we have transformed GPCR oral small molecule drug discovery to an industrialized

 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

druggable GPCR targets with novel oral small molecule medicines for patients.

we believe our team, scientific and technical advisors, and our proprietary Native

Complex PlatformTM uniquely positions us to become the leading GPCR-focused

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biotechnology company.

we believe we are at the forefront of industrial-scale GPCR drug discovery and $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

development.

we are advancing cutting-edge science and rigorously developing a broad and $\ensuremath{\mathsf{deep}}$

portfolio of GPCR-targeted programs for patients.

We note there are other companies with platforms focused on GPCR drug discovery, $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right$

which are led by teams with extensive experience in the $\frac{1}{2}$ pharmaceutica/biotechnology

industry.

2. Your summary presents an unbalanced discussion of your business and potential $\ensuremath{\mathsf{S}}$

opportunity by providing limited information that can put your statements in the proper

context and isolating such information towards the end of the Summary. Please revise $% \left(1\right) =\left(1\right) +\left(1\right$

your summary to include balance by including equally prominent disclosure of $% \left(1\right) =\left(1\right) +\left(1\right$

information about your status as a company with no commercial products, information ${\bf r}$

about the competitive conditions in the industry, and the status of your product $\ensuremath{\mathsf{P}}$

candidates. For example:

 $$\operatorname{\textsc{Balance}}$ the statement that SEP-786 is the only clinical stage, oral small molecule

agonist targeting Parathyroid Hormone 1 Receptor for the treatment

OI

FDA.

other

 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

development that target PTH1R for hypoparathyroidism, including a candidate that is $% \left(1\right) =\left(1\right) +\left(1\right)$

in Phase 3 and has recently been granted fast track status by the

proprietary Native Complex PlatformTM uniquely positions you to

become the

leading GPCR-focused biotechnology company to clarify that there are

companies that have developed platforms in use to develop

GPCR-focused product candidates, some of which are led by leadership teams with extensive

experience in the pharmaceutical/biotechnology field. Many of these companies are

private

companies, therefore there may not be a lot of information publicly available about $% \left(1\right) =\left(1\right) +\left(1\right)$

their platforms, product candidates and current stage of development. $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left($

Balance your belief that you are at the forefront of industrial-scale GPCR drug

discovery and development with information that there are other companies with $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

platforms that are focused on GPCR drug discovery

3. Please refer to Item 503 of Regulation S-K and note that the Summary should be brief,

should not contain all the detailed information in the prospectus and should focus on $% \left\{ 1,2,...,n\right\}$

providing a brief overview of the key aspects of the offering without merely repeating the $\ensuremath{\mathsf{I}}$

text of the prospects. As currently drafted the first eight pages of your Summary are

repeated almost word for word on the first eight pages of your Business section, and much

of the information was also repeated in Management $\,\,$ s Discussion and Analysis of

Financial Condition and Results of Operations and Management. The only subsections

that were summarized were the discussions of your strategy and risk factors. Please revise $% \left(1\right) =\left(1\right) +\left(1\right)$

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your summary to eliminate the repetitive information from within the $\operatorname{Summary}$ and avoid

 $\,$ merely repeating detailed discussions from the prospectus. To the extent you decide to

keep both graphics summarizing your pipeline on pages 2 and 5. Please why both are

necessary as most of the information in the graphic on page 2 is also in the graphic on

page 5.

4. We note your explanation of your Native Complex Platform. We understand that there are

other companies focused on developing GPCR-targeting drugs using alternate $% \left(1\right) =\left(1\right) +\left(1\right)$

position" of your technology will be sufficient to make up for the competitive advantage

other companies, who may be further along developing similar drugs.

5. Please define agonists, antagonists and allosteric modulators the first time the terms are

used.

Our Pipeline and Programs, page 4

6. Please remove the "Other Therapeutic Areas of Interest/Focus" from your pipeline table.

The pipeline table should only include references to your currently material product $% \left(1\right) =\left(1\right) +\left(1\right$

candidates and programs.

SEP-786 - Oral Small Molecule PTH1R Agonist for Hypoparathyroidism, page 5

7. Please remove statements about your conclusions from your preclincial studies from the $\ensuremath{\mathsf{T}}$

summary. Such statements should be accompanied by a description of the studies, which

is more appropriate for the Business section. Similarly revise the descriptions of your $\,$

other product candidates and programs.

Our future ability to utilize our net operating loss carryforwards and certain other tax attributes $% \left(1\right) =\left(1\right) \left(1\right) \left($

may be limited., page 47

8. Please quantify your current net operating loss carryforward. We are conducting, and will conduct, clincial trials for our current product candidates outside of the United States..., page 48

9. We note your disclosure on page 143 that you have submitted a CTN in Australia. Please

revise to clarify your plans to conduct trials in Australia and indicate whther you currently

have plans to conduct trials in other jurisdictions.

We may not be able to obtain orphan drug designation for our product candidates..., page 52

10. Please clarify which candidates, if any, may qualify for orphan drug status. Similarly

revise the risk factor titled "While we may in the future seek designations for our product $% \left(1\right) =\left(1\right) +\left(1\right)$

candidates with the FDA, $\ensuremath{\mathsf{EMA}}$ and other comparable foreign regulatory authorities that

are intended to confer benefits..." to identify other candidates that may qualify for

programs providing for an accelerated regulatory pathway or regulatory excusivity.

We currently depend and in the future may continue to depend on single or limited-source

suppliers..., page 68

11. We note you currently depend on single and limited source suppliers. Please clarify

whether you have supply agreements in place. If you do, please file such agreements as September 5, 2024

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exhibits pursuant to Item 601(b)(10)(ii)(B) of Regulation S-K. We intend to rely on third parties to conduct, supervise and monitor our preclinical studies..., page 68

12. We note your disclosure that if your relationships with your CROs terminates, you may

not be able to enter into arrangements with alternative CROs or do so on commercially $% \left(1\right) =\left(1\right) +\left(1$

reasonable terms. Please identify any CROs you are substantially dependent on and file $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

 $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

location in your registration statement, include descriptions of the material terms of these $\,$

agreements.

Risks Related to Intellectual Property, page 69

13. Please revise your discussion of risk relating to intellectual property to include a

disclosure, as mentioned on page 157, that your proprietary Native Complex Platform is

not patented. Specifically, discuss the additional risk associated with protecting this

intellectual property with things such as confidentiality agreements in lieu of patent $% \left(1\right) =\left(1\right) +\left(1\right) +\left($

protection.

Our insurance policies are expensive and only protect us from some business risks \dots , page 95

14. Please expand the discussion to identify commonly insured risks for which you are

currently not carrying insurance coverage. To the extent that you are aware that you are

maintaining a policy with a coverage amount that is less than adequate, please provide $% \left(1\right) =\left(1\right) \left(1\right) +\left(1\right) \left(1\right) \left(1\right) +\left(1\right) \left(1\right)$

information about the risk and quantify the shortfall.

Use of Proceeds, page 100

15. We note your intention to advance the development of your two lead product candidates

with the proceeds of this offering. Please expand on this discussion to disclose how far

along in the development process you expect to get with the proceeds of this offering.

Management's Discussion and Analysis of Financial Condition and Results of Operations

Critical Accounting Estimates, Significant Judgments and Use of Estimates Stock-based compensation, page 120

16. Once you have an estimated offering price or range, please explain to us how you

determined the fair value of the common stock underlying your equity issuances and the $\,$

reasons for any differences between the recent valuations of your common stock leading

up to the initial public offering and the estimated offering price. This information will

help facilitate our review of your accounting for equity issuances. Please discuss with the $\,$

staff how to submit your response.

Our Solution: Oral Small Molecule MRGPRX2 NAM, page 144

"insurmountable" NAM. Given the development stage of this treatment, such statements $\ensuremath{\mathsf{N}}$

appear to be premature and inappropriately assume regulatory approval at this stage.

Our solution: Oral Small Molecule Single- and Multi-Incretin Receptor Agonists, page 153

18. Please include a textual description explaining what the table in Figure 14 is intended to

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convev.

Government Regulation, page 159

19. We note that you have submitted a CTN in Australia to conduct your SEP-786 Phase $1\,$

clincial trial. To the extent you are planning to seek approval of this candidate in

Australia, please discuss the applicable review and approval process or clarify that it is

not your intention to seek approval in Australia.

Employees and Human Capital Resources, page 178

- 20. Please revise to quantify the number of full-time employees. Management, page $180\,$
- 21. Please disclose where Ms. Sharp has been employed since October 2020. Principal Stockholders, page 211
- 22. Please identify in a footnote to the table all natural persons who have voting and/or

investment power over the shares held by Samsara BioCapital, L.P., Invus Public

Equities, L.P., and Deep Track Biotechnology Master Fund, Ltd. General $\,$

23. Please supplementally provide us with copies of all written communications, as defined in

Rule 405 under the Securities Act, that you, or anyone authorized to do so on your behalf,

present to potential investors in reliance on Section 5(d) of the Securities Act, whether or

not they retain copies of the communications.

Please contact Ibolya Ignat at 202-551-3636 or Angela Connell at

202-551-3426 if you have questions regarding comments on the financial statements and related matters. Please contact Tamika Sheppard at 202-551-8346 or Suzanne Hayes at 202-551-3675 with any other questions.

Sincerely,

Division of

Office of Life

Corporation Finance

Sciences