

January 2, 2024

Thomas P. Kelly
Chief Financial Officer
Deciphera Pharmaceuticals, Inc.
200 Smith Street
Waltham, MA 02451

Pharmaceuticals, Inc.

Year Ended December 31, 2022
2023

Re: Deciphera

Form 10-K for the

Filed February 7,

File No. 001-38219

Dear Thomas P. Kelly:

We have completed our review of your filing. 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.

Sincerely,

Division of Corporation Finance

Office of Life Sciences