

Kura Oncology, Inc.
3033 Science Park Road
Suite 220
San Diego, CA 92121
(858) 500-8800

November 30, 2017

VIA EDGAR

United States Securities and Exchange Commission
Division of Corporation Finance
100 F Street, N.E.
Washington, D.C. 20549
Attn: Jeffrey Gabor

Re: Kura Oncology, Inc.
Registration Statement on Form S-3
File No. 333-221479

Ladies and Gentlemen:

Kura Oncology, Inc. (the “**Registrant**”) hereby requests that the Securities and Exchange Commission (the “**Commission**”) take appropriate action to cause the above-referenced Registration Statement on Form S-3 to become effective at 4:00 p.m. Eastern Time on Monday, December 4, 2017, or as soon thereafter as is practicable. The Registrant also hereby requests a copy of the written order verifying the effective date.

In connection with this request, the Registrant hereby acknowledges that:

- should the Commission or the staff of the Commission (the “**Staff**”), acting pursuant to delegated authority, declare the filing effective, it does not foreclose the Commission from taking any action with respect to the filing;
- the action of the Commission or the Staff, acting pursuant to delegated authority, in declaring the filing effective, does not relieve the Registrant from its full responsibility for the adequacy and accuracy of the disclosure in the filing; and
- the Registrant may not assert Staff comments and the declaration of effectiveness as a defense in any proceeding initiated by the Commission or any person under the federal securities laws of the United States.

Sincerely,

KURA ONCOLOGY, INC.

By: /s/ Heidi Henson
Heidi Henson
Chief Financial Officer

cc: Charles J. Bair, Cooley LLP
James Pennington, Cooley LLP