Alan Gilbert Direct Phone: 612-672-8381 Direct Fax: 612-642-8381 *Alan.Gilbert@maslon.com*

VIA EDGAR

Securities and Exchange Commission Judiciary Plaza 450 Fifth Street, N.W. Washington, DC 20549

Re: ZIOPHARM Oncology, Inc. (the "Company") Registration Statement on Form S-3

Ladies and Gentlemen:

Contemporaneously with the filing of this correspondence, the Company has filed with the Commission a Registration Statement on Form S-3 (the "Registration Statement").

Should you have comments or questions regarding the Registration Statement, please direct them to the undersigned at (612) 672-8381 (phone) or (612) 642-8381 (fax), or to Richard Bagley, the Company's President, Chief Operating Officer and Treasurer at (617) 259-1978 (phone) or fax: (617) 241-2855.

Regards,

/s/ Alan M. Gilbert

Alan M. Gilbert, Esq.

cc: (via email):

Dr. Jonathan Lewis Richard Bagley Tyler Cook