

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

December 19, 2010

## Via U.S. Mail

Mr. Dennis M. Mulroy Chief Financial Officer Cardium Therapeutics, Inc. 12255 El Camino Real, Suite 250 San Diego, California 92130

> Re: Cardium Therapeutics, Inc. Amendment No. 1 to Schedule TO Filed on December 16, 2010

File No. 005-51647

Dear Mr. Mulroy:

We have reviewed your amended filing and have the following comments.

## General

- 1. We note your response to prior comment 2. Please address the applicability of Rule 13e-3 to the warrants, rather than the common stock. Relevant considerations would include the number of record holders of the warrants, whether the warrants are listed on a national securities exchange, and whether the warrants were issued in a transaction registered under the Securities Act of 1933, such that a reporting obligation under Section 15(d) of that Act exists with respect thereto.
- 2. We note your response to prior comment 3. Please advise us as to how the warrants that have unlimited "down round" price protection may be treated differently for other purposes, including any different tax or accounting treatment.

## Withdrawal rights and change of election, page 10

3. We note your response to prior comment 6. The date certain after which securities may be withdrawn pursuant to Rule 13e-4(f)(2)(ii) appears to be January 28, 2011, rather than January 31, 2011. See Item 1004(a)(1)(vi) of Regulation M-A. Please advise, or revise your disclosure.

Mr. Dennis M. Mulroy Cardium Therapeutics, Inc. December 19, 2010 Page 2

You may contact me at (202) 551-3503 if you have any questions regarding our comments.

Sincerely,

David L. Orlic Special Counsel Office of Mergers & Acquisitions

cc: <u>Via facsimile: (858) 523-6705</u>
James A. Mercer III, Esq.
Sheppard, Mullin, Richter & Hampton LLP