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Item 7.01 Regulation FD Disclosure.

First Trust Senior Floating Rate Income Fund II (the "Fund") is filing herewith a press release issued on May 10, 2012, as Exhibit 99.1. The press release was issued by First Trust Advisors, L.P. to report that on May 21, 2012, the Fund will host a conference call with the Leveraged Finance Investment Team of First Trust Advisors L.P., the Fund's portfolio manager. The purpose of the call is to hear the Fund's portfolio management team provide an update for the Fund. Details regarding the conference call are contained in the press release included herein.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

| Exhibit Number | Description |
|----------------|---|
| 99.1 | Press release of First Trust Advisors, L.P. dated May 10, 2012. |

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: May 10, 2012

FIRST TRUST SENIOR FLOATING RATE INCOME FUND II

By: /s/ W. Scott Jardine

Name: W. Scott Jardine

Title: Secretary

EXHIBIT INDEX

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