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

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

**Date of report: September 1, 2009
(Date of earliest event reported): August 31, 2009**

SUNOCO LOGISTICS PARTNERS L.P.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation)

1-31219
(Commission file number)

23-3096839
(IRS employer
identification number)

1735 Market Street, Suite LL, Philadelphia, PA
(Address of principal executive offices)

19103-7583
(Zip Code)

(215) 977-3000
(Registrant's telephone number, including area code)

N/A
(Former name or former address, if changed since last report)

Check the appropriate box below if the Form 8-K is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
 - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
 - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
 - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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Item 5.02. Departure of Directors or Principal Officers; Election of Directors; Appointment of Principal Officers

By letter dated August 31, 2009, Terence P. Delaney announced his resignation as a director of Sunoco Partners LLC (“Company”), general partner of Sunoco Logistics Partners L.P. (“Partnership”), effective as of such date. Mr. Delaney’s resignation was not the result of any disagreement relating to the operations, policies or practices, of either the Company or the Partnership.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits

17.1. Resignation letter, dated August 31, 2009, from Terence P. Delaney.

SIGNATURE

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 thereunto duly authorized.

SUNOCO LOGISTICS PARTNERS L.P.

**By: Sunoco Partners LLC,
its General Partner**

By: /s/ BRUCE D. DAVIS, JR.

Bruce D. Davis, Jr.

Vice President, General Counsel and Secretary

**September 1, 2009
Philadelphia, PA**

EXHIBIT INDEX

Exhibit No.

Exhibit

17.1 Resignation letter, dated August 31, 2009, from Terence P. Delaney.

August 31, 2009

Ms. Lynn L. Elsenhans
Chairman of the Board
Sunoco Logistics Partners LLC

Dear Lynn:

In conjunction with the end of my employment with Sunoco, Inc., I hereby resign my position as a director of Sunoco Partners LLC, the general partner of Sunoco Logistics Partners L.P., effective August 31, 2009. It was a pleasure to have served on the Board. My resignation does not reflect any disagreement with the management or the Board of Sunoco Partners LLC, or Sunoco Logistics Partners L.P.

Sincerely,

/s/ Terence P. Delaney

Terence P. Delaney

CC: B.D. Davis, Jr.
D.M. Fretz