

PART I – DISTRIBUTION INFORMATION

ITEM 1 – Distribution and Pool Performance Information.

The response to Item 1 is set forth in part herein and in part in Exhibit 99.1.

Introductory and explanatory information regarding the material terms, parties and distributions described in Exhibit 99.1 is included in the Prospectus Supplement relating to the RAMP Mortgage Asset-Backed Pass-Through Certificates, Series 2006-RS4 (the "Certificates") dated June 23, 2006, and related Prospectus dated April 7, 2006 (collectively, the "Prospectus"), of the RAMP Series 2006-RS4 Trust (the "Issuing Entity") filed with the Securities and Exchange Commission pursuant to Rule 424(b)(5) under the Securities Act of 1933. The following classes of Certificates were offered under the Prospectus: Class A-1, Class A-2, Class A-3, Class A-4, Class M-1, Class M-2, Class M-3, Class M-4, Class M-5, Class M-6, Class M-7, Class M-8 and Class M-9.

PART II – OTHER INFORMATION

ITEM 2 – Legal Proceedings

Nothing to report.

ITEM 3 – Sales of Securities and Use of Proceeds.

Nothing to report.

ITEM 4 – Defaults Upon Senior Securities.

Nothing to report.

ITEM 5 – Submission of Matters to a Vote of Security Holders.

Nothing to report.

ITEM 6 – Significant Obligors of Pool Assets.

Inapplicable.

ITEM 7 – Significant Enhancement Provider Information.

Nothing to report.

ITEM 8 – Other Information.

Nothing to report.

ITEM 9 – Exhibits

- (a) Documents filed as part of this report.

Exhibit 99.1 July 2006 Monthly Statement to Certificateholders

- (b) Exhibits required by Form 10-D and Item 601 of Regulation S-K.

Exhibit 10.1 Pooling and Servicing Agreement, dated as of June 1, 2006 among Residential Asset Mortgage Products, Inc., as depositor, Residential Funding Corporation, as master servicer and JPMorgan Chase Bank, N.A., as trustee (incorporated by reference to the exhibit with the same numerical designation included in the Report on Form 8-K filed by the Issuing Entity with the Securities and Exchange Commission on July 13, 2006).

Exhibit 10.2 Assignment and Assumption Agreement, dated as of June 28, 2006 between Residential Asset Mortgage Products, Inc. and Residential Funding Corporation (incorporated by reference to the exhibit with the same numerical designation included in the Report on Form 8-K filed by the Issuing Entity with the Securities and Exchange Commission on July 13, 2006).

Exhibit 10.3 Yield Maintenance Agreement, dated as of June 28, 2006 between Bank of America, N.A. and JPMorgan Chase Bank, N.A., as trustee on behalf of the RAMP Series 2006-RS4 Trust (incorporated by reference to the exhibit with the same numerical designation included in the Report on Form 8-K filed by the Issuing Entity with the Securities and Exchange Commission on July 13, 2006).

Exhibit 99.1 July 2006 Monthly Statement to Certificateholders

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 thereunto duly authorized.

Dated: July 25, 2006

RAMP Series 2006-RS4 Trust
(Issuing entity)

By: Residential Funding Corporation, as Master Servicer

By: /s/ Darsi Meyer
Name: Darsi Meyer
Title: Managing Director

EXHIBIT 99.1 -- MONTHLY STATEMENT TO CERTIFICATEHOLDERS