

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

SCHEDULE 13D
(RULE 13D - 101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO 13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO 13d-2(a)

(Amendment No. 4)*

RPX Corporation
(Name of Issuer)

Common Stock, \$0.0001 par value
(Title of Class of Securities)

74972G103
(CUSIP Number)

Christopher P. Davis, Esq.
Kleinberg, Kaplan, Wolff & Cohen, P.C.
551 Fifth Avenue, New York, New York 10176
Tel: (212) 986-6000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

February 17, 2017
(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box [].

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

The Mangrove Partners Master Fund, Ltd.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS

WC

5. CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

7. SOLE VOTING POWER

0

8. SHARED VOTING POWER

2,977,235

9. SOLE DISPOSITIVE POWER

0

10. SHARED DISPOSITIVE POWER

2,977,235

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,977,235

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11)
EXCLUDES CERTAIN SHARES

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

6.1%

14. TYPE OF REPORTING PERSON

OO

1. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

The Mangrove Partners Fund, L.P.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS

AF

5. CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

7. SOLE VOTING POWER

0

8. SHARED VOTING POWER

2,977,235

9. SOLE DISPOSITIVE POWER

0

10. SHARED DISPOSITIVE POWER

2,977,235

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,977,235

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11)
EXCLUDES CERTAIN SHARES

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

6.1%

14. TYPE OF REPORTING PERSON

PN

1. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

The Mangrove Partners Fund (Cayman), Ltd.

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS

AF

5. CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

7. SOLE VOTING POWER

0

8. SHARED VOTING POWER

2,977,235

9. SOLE DISPOSITIVE POWER

0

10. SHARED DISPOSITIVE POWER

2,977,235

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,977,235

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11)
EXCLUDES CERTAIN SHARES

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

6.1%

14. TYPE OF REPORTING PERSON

OO

1. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Mangrove Partners

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS

AF

5. CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

7. SOLE VOTING POWER

0

8. SHARED VOTING POWER

2,977,235

9. SOLE DISPOSITIVE POWER

0

10. SHARED DISPOSITIVE POWER

2,977,235

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,977,235

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11)
EXCLUDES CERTAIN SHARES

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

6.1%

14. TYPE OF REPORTING PERSON

OO

1. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Mangrove Capital

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS

AF

5. CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

Cayman Islands

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

7. SOLE VOTING POWER

0

8. SHARED VOTING POWER

2,977,235

9. SOLE DISPOSITIVE POWER

0

10. SHARED DISPOSITIVE POWER

2,977,235

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,977,235

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11)
EXCLUDES CERTAIN SHARES

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

6.1%

14. TYPE OF REPORTING PERSON

OO

1. NAMES OF REPORTING PERSONS
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Nathaniel August

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3. SEC USE ONLY

4. SOURCE OF FUNDS

AF

5. CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) or 2(e)

6. CITIZENSHIP OR PLACE OF ORGANIZATION

United States

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

7. SOLE VOTING POWER

0

8. SHARED VOTING POWER

2,977,235

9. SOLE DISPOSITIVE POWER

0

10. SHARED DISPOSITIVE POWER

2,977,235

11. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

2,977,235

12. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11)
EXCLUDES CERTAIN SHARES

13. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

6.1%

14. TYPE OF REPORTING PERSON

IN

The following constitutes Amendment No. 4 to the Schedule 13D filed by the undersigned (the "Amendment No. 4"). This Amendment No. 4 amends the Schedule 13D as specifically set forth herein.

Item 3. Source and Amount of Funds or Other Consideration.

Item 3 is hereby amended and restated to read as follows:

A total of approximately \$30,655,749, including brokerage commissions, was paid to acquire the securities reported as beneficially owned by the Master Fund. The funds used to purchase these securities were obtained from the general working capital of the Master Fund, including margin account borrowings made in the ordinary course of business, although the Reporting Persons cannot determine whether any funds allocated to purchase such securities were obtained from any margin account borrowings.

Item 5. Interest in Securities of the Issuer.

Item 5(a) is hereby amended and restated to read as follows:

(a) The aggregate percentage of Shares reported owned by each person named herein is based upon 49,152,648 Shares outstanding, which is the total number of Shares outstanding as of October 28, 2016 as reported in the Issuer's Quarterly Report filed on Form 10-Q with the Securities and Exchange Commission on November 4, 2016.

As of the date hereof, the Master Fund owned directly 2,977,235 Shares, constituting approximately 6.1% of the Shares outstanding. By virtue of their respective relationships with the Master Fund discussed in further detail in Item 2, each of the US Feeder, the Cayman Feeder, Mangrove Partners, Mangrove Capital and Mr. August may be deemed to beneficially own the Shares owned directly by the Master Fund.

Each Reporting Person, as a member of a "group" with the other Reporting Persons for the purposes of Section 13(d)(3) of the Securities Exchange Act of 1934, as amended, may be deemed the beneficial owner of the Shares directly owned by the other Reporting Persons. Each Reporting Person disclaims beneficial ownership of such Shares except to the extent of his or its pecuniary interest therein.

Item 5(c) is hereby amended to add the following:

(c) Schedule B annexed hereto lists all transactions in securities of the Issuer during the past 60 days.

SIGNATURES

After reasonable inquiry and to the best of its knowledge and belief, each of the undersigned certifies that the information with respect to it set forth in this statement is true, complete, and correct.

Dated: February 22, 2017

THE MANGROVE PARTNERS MASTER FUND, LTD.

By: MANGROVE PARTNERS,
as Investment Manager

By: /s/ Nathaniel August

Name: Nathaniel August
Title: Director

THE MANGROVE PARTNERS FUND, L.P.

By: MANGROVE CAPITAL,
as General Partner

By: /s/ Nathaniel August

Name: Nathaniel August
Title: Director

THE MANGROVE PARTNERS FUND (CAYMAN), LTD.

By: MANGROVE PARTNERS,
as Investment Manager

By: /s/ Nathaniel August

Name: Nathaniel August
Title: Director

MANGROVE PARTNERS

By: /s/ Nathaniel August

Name: Nathaniel August
Title: Director

MANGROVE CAPITAL

By: /s/ Nathaniel August

Name: Nathaniel August
Title: Director

/s/ Nathaniel August

NATHANIEL AUGUST

SCHEDULE B

Transactions of the Reporting Persons During the Past 60 Days

| <u>Date of Purchase/Sale</u> | <u>Shares of Common Stock Purchased/(Sold)</u> | <u>Price Per Share (\$)</u> |
|-------------------------------------|---|------------------------------------|
| | <u>The Mangrove Partners Master Fund, Ltd.</u> | |
| 02/06/17 | 3,276 | 10.6247 |
| 02/06/17 | 46,090 | 10.6143 |
| 02/13/17 | (40,524) | 11.7888 |
| 02/14/17 | (111,414) | 11.7194 |
| 02/14/17 | (238,100) | 11.7366 |
| 02/15/17 | (26,673) | 11.1420 |
| 02/15/17 | (1,700) | 11.1529 |
| 02/17/17 | (109,983) | 11.6614 |
| 02/17/17 | (35,000) | 11.7343 |
| 02/17/17 | (114,971) | 11.6176 |