LRR Energy, L.P. Form SC 13D/A March 25, 2013

OMB APPROVAL

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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Under the Securities Exchange Act of 1934 (Amendment No. 2)*

LRR Energy, L.P.

(Name of Issuer)

Common Units

(Title of Class of Securities)

50214A 104

(CUSIP Number)

Jaime Casas

Chief Financial Officer of LRE GP, LLC

Heritage Plaza

1111 Bagby Street, Suite 4600

Houston, Texas 77002

713-345-2126

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

March 22, 2013

(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 that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box. o

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-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 (Act) 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).

Persons who respond to the collection of information contained in this form are not

Required to respond unless the form displays a currently valid OMB control number.

CUSIP No. 50214A 104 1 Names of Reporting Persons: LIME ROCK RESOURCES A, L.P. 2 Check the Appropriate Box if a Member of a Group (See Instructions): (b) o SEC Use Only: 3 Source of Funds (See Instructions): 4 5 Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e): o Citizenship or Place of Organization: 6 **DELAWARE** 7 Sole Voting Power: Number of Shares 8 Shared Voting Power: 264,297(1) Beneficially Owned by 9 Sole Dispositive Power: Each

11 Aggregate Amount Beneficially Owned by Each Reporting Person: 264,297(1)

12 Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): o

264,297(1)

Shared Dispositive Power:

- Percent of Class Represented by Amount in Row (11): 1.7%(2)
- 14 Type of Reporting Person (See Instructions): PN

10

Reporting Person With

Lime Rock Resources A, L.P. may also be deemed to own 960,247 subordinated units representing limited partner interests (each, a **Sub Unit**) in LRR Energy, L.P. (the **Partnership**). The Sub Units will convert into common units on a one-for-one basis at the times set forth in, and subject to the terms and conditions of, the First Amended and Restated Agreement of Limited Partnership of the Partnership (the **Partnership Agreement**).

⁽²⁾ Calculation of percentage based on 15,747,102 common units of the Issuer issued and outstanding as of March 15, 2013, as set forth in the prospectus of the Issuer, filed pursuant to Rule 424(b)(5) with the Securities and Exchange Commission on March 20, 2013.

| 1 | Names of Reporting Perso LIME ROCK RESOURC | |
|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|
| 2 | Check the Appropriate Bo (a) (b) | ox if a Member of a Group (See Instructions): o o |
| 3 | SEC Use Only: | |
| 4 | Source of Funds (See Inst OO | ructions): |
| 5 | Check if Disclosure of Le | gal Proceedings Is Required Pursuant to Items 2(d) or 2(e): o |
| 6 | Citizenship or Place of Or DELAWARE | ganization: |
| | 7 | Sole Voting Power: |
| Number of Shares Beneficially Owned by | 8 | Shared Voting Power: 87,627(1) |
| Each Reporting Person With | 9 | Sole Dispositive Power: |
| reison with | 10 | Shared Dispositive Power: 87,627(1) |
| 11 | Aggregate Amount Benef 87,627(1) | icially Owned by Each Reporting Person: |
| 12 | Check if the Aggregate A | mount in Row (11) Excludes Certain Shares (See Instructions): o |
| 13 | Percent of Class Represent 0.6%(2) | ated by Amount in Row (11): |
| 14 | Type of Reporting Person PN | (See Instructions): |

⁽¹⁾ Lime Rock Resources B, L.P. may also be deemed to own 318,368 Sub Units in the Partnership. The Sub Units will convert into common units on a one-for-one basis at the times set forth in, and subject to the terms and conditions of, the Partnership Agreement.

⁽²⁾ Calculation of percentage based on 15,747,102 common units of the Issuer issued and outstanding as of March 15, 2013, as set forth in the prospectus of the Issuer, filed pursuant to Rule 424(b)(5) with the Securities and Exchange Commission on March 20, 2013.

| 1 | Names of Reporting Per LIME ROCK RESOUR | |
|--------------------------|--------------------------------------------|------------------------------------------------------------------|
| 2 | Check the Appropriate (a) | Box if a Member of a Group (See Instructions): |
| | (b) | 0 |
| 3 | SEC Use Only: | |
| 4 | Source of Funds (See In OO | structions): |
| 5 | Check if Disclosure of I | Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e): o |
| 6 | Citizenship or Place of OELAWARE | Organization: |
| | 7 | Sole Voting Power: |
| Number of Shares | 8 | Shared Voting Power: |
| Beneficially Owned by | o | 1,497,676(1) |
| Each | 9 | Sole Dispositive Power: |
| Reporting Person With | 10 | |
| | 10 | Shared Dispositive Power: 1,497,676(1) |
| 11 | Aggregate Amount Ben 1,497,676(1) | eficially Owned by Each Reporting Person: |
| 12 | Check if the Aggregate | Amount in Row (11) Excludes Certain Shares (See Instructions): o |
| 13 | Percent of Class Repres 9.5%(2) | ented by Amount in Row (11): |
| 14 | Type of Reporting Perso PN | on (See Instructions): |

⁽¹⁾ Lime Rock Resources C, L.P. may also be deemed to own 5,441,385 Sub Units in the Partnership. The Sub Units will convert into common units on a one-for-one basis at the times set forth in, and subject to the terms and conditions of, the Partnership Agreement.

⁽²⁾ Calculation of percentage based on 15,747,102 common units of the Issuer issued and outstanding as of March 15, 2013, as set forth in the prospectus of the Issuer, filed pursuant to Rule 424(b)(5) with the Securities and Exchange Commission on March 20, 2013.

| 1 | Names of Reporting Person JONATHAN C. FARBER | ns: |
|-------------------------------------------------|-------------------------------------------------|-----------------------------------------------------------------|
| 2 | Check the Appropriate Box (a) (b) | s if a Member of a Group (See Instructions): o o |
| 3 | SEC Use Only: | |
| 4 | Source of Funds (See Instru OO | uctions): |
| 5 | Check if Disclosure of Leg | al Proceedings Is Required Pursuant to Items 2(d) or 2(e): o |
| 6 | Citizenship or Place of Org UNITED STATES | anization: |
| | 7 | Sole Voting Power: 18,354 |
| Number of Shares Beneficially Owned by | 8 | Shared Voting Power: 1,849,600(1) |
| Each Reporting Person With | 9 | Sole Dispositive Power: 18,354 |
| | 10 | Shared Dispositive Power: 1,849,600(1) |
| 11 | Aggregate Amount Benefic 1,867,954(1) | cially Owned by Each Reporting Person: |
| 12 | Check if the Aggregate Am | nount in Row (11) Excludes Certain Shares (See Instructions): o |
| 13 | Percent of Class Represented 11.8%(2) | ed by Amount in Row (11): |
| 14 | Type of Reporting Person (IN | See Instructions): |

⁽¹⁾ Jonathan C. Farber may also be deemed to own 6,720,000 Sub Units. The Sub Units will convert into common units on a one-for-one basis at the times set forth in, and subject to the terms and conditions of, the Partnership Agreement.

⁽²⁾ Calculation of percentage based on 15,747,102 common units of the Issuer issued and outstanding as of March 15, 2013, as set forth in the prospectus of the Issuer, filed pursuant to Rule 424(b)(5) with the Securities and Exchange Commission on March 20, 2013.

| 1 | Names of Reporting Person JOHN T. REYNOLDS | is: |
|-------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------|
| 2 | Check the Appropriate Box (a) (b) | if a Member of a Group (See Instructions): o o |
| 3 | SEC Use Only: | |
| 4 | Source of Funds (See Instru OO | actions): |
| 5 | Check if Disclosure of Lega | al Proceedings Is Required Pursuant to Items 2(d) or 2(e): o |
| 6 | Citizenship or Place of Org UNITED STATES | anization: |
| | 7 | Sole Voting Power: |
| Number of Shares Beneficially Owned by | 8 | Shared Voting Power: 1,849,600(1) |
| Each Reporting Person With | 9 | Sole Dispositive Power: |
| Person with | 10 | Shared Dispositive Power: 1,849,600(1) |
| 11 | Aggregate Amount Benefic 1,849,600(1) | ially Owned by Each Reporting Person: |
| 12 | Check if the Aggregate Am | ount in Row (11) Excludes Certain Shares (See Instructions): o |
| 13 | Percent of Class Represented 11.7%(2) | ed by Amount in Row (11): |
| 14 | Type of Reporting Person (IN | See Instructions): |

⁽¹⁾ John T. Reynolds may also be deemed to own 6,720,000 Sub Units. The Sub Units will convert into common units on a one-for-one basis at the times set forth in, and subject to the terms and conditions of, the Partnership Agreement.

⁽²⁾ Calculation of percentage based on 15,747,102 common units of the Issuer issued and outstanding as of March 15, 2013, as set forth in the prospectus of the Issuer, filed pursuant to Rule 424(b)(5) with the Securities and Exchange Commission on March 20, 2013.

CUSIP No. 50214A 104

This Amendment No. 2 (this Amendment) amends the information provided in the Schedule 13D (the Original Schedule 13D) filed with the

| Resources C, L.P. (LRR C), Jonathan C. Farber and John T. Reynolds (collectively, the Reporting Persons) on November 22, 2011, as amended by that certain Amendment No. 1 filed on December 20, 2011. This Amendment is being filed in order to reflect a decrease in the Reporting Persons beneficial ownership resulting from the sale by LRR A, LRR B and LRR C of an aggregate of 3,200,000 common units of LRR Energy, L.P. (the Partnership) in a secondary offering that closed on March 22, 2013 (the Offering). As a result, this Amendment amends the information disclosed in the Original Schedule 13D as set forth herein. Except as otherwise specified in this Amendment, all items left blank remain unchanged in all material respects and any items that are reported are deemed to amend and restate the corresponding items in the Original Schedule 13D. Capitalized terms used herein but not defined herein have the respective meanings ascribed to them in the Original Schedule 13D. | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Item 1. Security and Issuer. | |
| No modification is made to Item 1 of the Original Schedule 13D. | |
| Item 2. Identity and Background. | |
| No modification is made to Item 2 of the Original Schedule 13D. | |
| Item 3. Source and Amount of Funds or Other Consideration. | |
| No modification is made to Item 3 of the Original Schedule 13D. | |
| Item 4. Purpose of Transaction. | |
| No modification is made to Item 4 of the Original Schedule 13D. | |
| Item 5. Interest in Securities of the Issuer. | |

The ownership chart in subparagraphs (a)-(b) and the information set forth in subparagraph (c) are hereby amended and restated in their entirety by the following:

(a)-(b) The aggregate number and percentage of Common Units beneficially owned by each of the Reporting Persons (on the basis of a total of 15,747,102 Common Units issued and outstanding as reported in the Partnership s prospectus, filed pursuant to Rule 424(b)(5) with the Securities and Exchange Commission on March 20, 2013 (the **Prospectus**)) is as follows:

<u>LRR</u>

A

| (i) | Amount beneficially owned: 264 | 1,297 | Percentage: 1.7% |
|------|---------------------------------|----------------------------------------------------------|------------------|
| (ii) | Number of shares to which the R | Reporting Person has: | |
| | (A) | Sole power to vote or to direct the vote: | 0 |
| | (B) | Shared power to vote or to direct the vote: | 264,297 |
| | (C) | Sole power to dispose or to direct the disposition of: | 0 |
| | (D) | Shared power to dispose or to direct the disposition of: | 264,297 |

<u>LRR</u>

<u>B</u>

| (i) | Amount beneficially owned: 87 | 627 | Percentage: 0.6% |
|------|---------------------------------|----------------------------------------------------------|------------------|
| (ii) | Number of shares to which the l | Reporting Person has: | |
| | (A) | Sole power to vote or to direct the vote: | 0 |
| | (B) | Shared power to vote or to direct the vote: | 87,627 |
| | (C) | Sole power to dispose or to direct the disposition of: | 0 |
| | (D) | Shared power to dispose or to direct the disposition of: | 87,627 |

7

CUSIP No. 50214A 104

LRR C

| (i) | Amount beneficia | ally owned: 1,497,676 | Percentage: 9.5% |
|------|------------------|----------------------------------------------------------|------------------|
| (ii) | Number of shares | to which the Reporting Person has: | |
| | (A) | Sole power to vote or to direct the vote: | 0 |
| | (B) | Shared power to vote or to direct the vote: | 1,497,676 |
| | (C) | Sole power to dispose or to direct the disposition of: | 0 |
| | (D) | Shared power to dispose or to direct the disposition of: | 1.497.676 |

Jonathan C. Farber

| (i) | Amount beneficially owned: | 1,867,954 | Percentage: 11.8% |
|------|-----------------------------|----------------------------------------------------------|-------------------|
| (ii) | Number of shares to which t | he Reporting Person has: | |
| | (A) | Sole power to vote or to direct the vote: | 18,354 |
| | (B) | Shared power to vote or to direct the vote: | 1,849,600 |
| | (C) | Sole power to dispose or to direct the disposition of: | 18,354 |
| | (D) | Shared power to dispose or to direct the disposition of: | 1,849,600 |

John T. Reynolds

| (i) | Amount beneficial | lly owned: 1,849,600 | Percentage: 11.7% |
|------|-------------------|----------------------------------------------------------|-------------------|
| (ii) | Number of shares | to which the Reporting Person has: | |
| | (A) | Sole power to vote or to direct the vote: | 0 |
| | (B) | Shared power to vote or to direct the vote: | 1,849,600 |
| | (C) | Sole power to dispose or to direct the disposition of: | 0 |
| | (D) | Shared power to dispose or to direct the disposition of: | 1,849,600 |

⁽c) Except as otherwise described herein with respect to the sale by LRR A, LRR B and LRR C of Common Units to certain underwriters named in the Prospectus, and to the knowledge of the Reporting Persons, none of the persons named in response to Paragraphs (a) and (b) above has effected any transaction in the Common Units during the past 60 days.

Item 6. Contracts, Arrangements, Understandings or Relationships With Respect to Securities of the Issuer.

No modification is made to Item 6 of the Original Schedule 13D.

Item 7. Material to be filed as Exhibits.

Exhibit A Joint Filing Agreement incorporated by reference to Exhibit A to the Schedule 13D filed by Lime Rock Resources A, L.P., Lime Rock Resources B, L.P., Lime Rock Resources C, L.P., Jonathan C. Farber and John T. Reynolds on

November 22, 2011.

Exhibit B First Amended and Restated Agreement of Limited Partnership of LRR Energy, L.P., dated as of November 16, 2011, incorporated by reference to Exhibit 3.1 to the Partnership s Current Report on Form 8-K filed on November 22, 2011.

| Exhibit C | Purchase, Sale, Contribution, Conveyance and Assumption Agreement, dated as of November 16, 2011, by and among Lime Rock Resources A, L.P., Lime Rock Resources B, L.P., Lime Rock Resources C, L.P., LRE GP, LLC, LRR Energy, L.P. and LRE Operating, LLC, incorporated by reference to Exhibit 10.5 to the Partnership s Current Report on Form 8-K filed on November 22, 2011. |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exhibit D | Power of Attorney for Lime Rock Resources A, L.P. dated November 10, 2011 incorporated by reference to Exhibit A to Form 3 filed by Lime Rock Resources A, L.P. on November 10, 2011. |
| Exhibit E | Power of Attorney for Lime Rock Resources B, L.P. dated November 10, 2011 incorporated by reference to Exhibit A to Form 3 filed by Lime Rock Resources B, L.P. on November 10, 2011. |
| Exhibit F | Power of Attorney for Lime Rock Resources C, L.P. dated November 10, 2011 incorporated by |
| | |

CUSIP No. 50214A 104

reference to Exhibit A to Form 3 filed by Lime Rock Resources C, L.P. on November 10, 2011.

Exhibit G Power of Attorney for Jonathan C. Farber dated November 10, 2011 incorporated by reference to Exhibit A to Form 3

filed by Jonathan C. Farber on November 10, 2011.

Exhibit H Power of Attorney for John T. Reynolds dated November 10, 2011 incorporated by reference to Exhibit A to Form 3

filed by John T. Reynolds on November 10, 2011.

9

CUSIP No. 50214A 104

SIGNATURES

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

Dated: March 25, 2013

Lime Rock Resources A, L.P.

By: Lime Rock Resources A GP, LLC, its

general partner

By: Lime Rock Resources GP, L.P., its general

partner

By: LRR GP, LLC, its general partner

By:

Name: Jonathan C. Farber Title: Managing Member

Lime Rock Resources B, L.P.

By: Lime Rock Resources GP, L.P., its general

partner

By: LRR GP, LLC, its general partner

By:

Name: Jonathan C. Farber Title: Managing Member

Lime Rock Resources C, L.P.

By: Lime Rock Resources C GP, LLC, its

general partner

By: Lime Rock Resources GP, L.P., its general

partner

By: LRR GP, LLC, its general partner

By:

Name: Jonathan C. Farber Title: Managing Member

*

Jonathan C. Farber

*

John T. Reynolds

*By: /s/ Kris Agarwal

/s/ Kris Agarwal Kris Agarwal, as Attorney-in-Fact

10

CUSIP No. 50214A 104

Exhibit Index

| Exhibit A | Joint Filing Agreement incorporated by reference to Exhibit A to the Schedule 13D filed by Lime Rock Resources A, L.P., Lime Rock Resources B, L.P., Lime Rock Resources C, L.P., Jonathan C. Farber and John T. Reynolds on November 22, 2011. |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exhibit B | First Amended and Restated Agreement of Limited Partnership of LRR Energy, L.P., dated as of November 16, 2011, incorporated by reference to Exhibit 3.1 to the Partnership s Current Report on Form 8-K filed on November 22, 2011. |
| Exhibit C | Purchase, Sale, Contribution, Conveyance and Assumption Agreement, dated as of November 16, 2011, by and among Lime Rock Resources A, L.P., Lime Rock Resources C, L.P., LRE GP, LLC, LRR Energy, L.P. and LRE Operating, LLC, incorporated by reference to Exhibit 10.5 to the Partnership s Current Report on Form 8-K filed on November 22, 2011. |
| Exhibit D | Power of Attorney for Lime Rock Resources A, L.P. dated November 10, 2011 incorporated by reference to Exhibit A to Form 3 filed by Lime Rock Resources A, L.P. on November 10, 2011. |
| Exhibit E | Power of Attorney for Lime Rock Resources B, L.P. dated November 10, 2011 incorporated by reference to Exhibit A to Form 3 filed by Lime Rock Resources B, L.P. on November 10, 2011. |
| Exhibit F | Power of Attorney for Lime Rock Resources C, L.P. dated November 10, 2011 incorporated by reference to Exhibit A to Form 3 filed by Lime Rock Resources C, L.P. on November 10, 2011. |
| Exhibit G | Power of Attorney for Jonathan C. Farber dated November 10, 2011 incorporated by reference to Exhibit A to Form 3 filed by Jonathan C. Farber on November 10, 2011. |
| Exhibit H | Power of Attorney for John T. Reynolds dated November 10, 2011 incorporated by reference to Exhibit A to Form 3 filed by John T. Reynolds on November 10, 2011. |