RSP Permian, Inc. Form 4 December 23, 2016

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

30(h) of the Investment Company Act of 1940

OMB APPROVAL OMB

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obligations

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

may continue. See Instruction

1(b).

(Print or Type Responses)

| 1. Name and Address of Reporting Person * Huck William | 2. Issuer Name and Ticker or Trading Symbol RSP Permian, Inc. [RSPP] | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | |
|--|--|---|--|--|
| (Last) (First) (Middle) | 3. Date of Earliest Transaction | | | |
| 3141 HOOD STREET, SUITE 500 | (Month/Day/Year) 12/21/2016 | Director 10% OwnerX_ Officer (give title Other (specify below) VP, Operations | | |
| (Street) | 4. If Amendment, Date Original Filed(Month/Day/Year) | 6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting Person | | |
| DALLAS, TX 75219 | | Form filed by More than One Reporting Person | | |
| | | | | |

| (City) | (State) | (Zip) Tabl | e I - Non-D | erivative Se | curities Acq | uired, Disposed o | f, or Beneficial | ly Owned |
|--------------------------------------|---|-----------------------------------|--------------------|---|--------------------------|--|----------------------------------|----------------------------------|
| 1.Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any | 3. Transaction | 4. Securitie on(A) or Disp (Instr. 3, 4 | osed of (D) | 5. Amount of Securities Beneficially | 6. Ownership Form: Direct (D) or | 7. Nature of Indirect Beneficial |
| , , | | (Month/Day/Year) | (Instr. 8) Code V | | (A) or D) Price | Owned Following Reported Transaction(s) (Instr. 3 and 4) | Indirect (I) (Instr. 4) | Ownership (Instr. 4) |
| Common Stock | 12/21/2016 | | S | 6,000 Г | \$ 0 45.13 (1) (2) | 339,837 | D | |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | e and | 8. Price of | 9. Nu |
|-------------|-------------|---------------------|--------------------|------------|------------|---------------|-------------|----------|----------|-------------|--------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transacti | orNumber | Expiration D | ate | Amou | nt of | Derivative | Deriv |
| Security | or Exercise | | any | Code | of | (Month/Day/ | Year) | Under | lying | Security | Secui |
| (Instr. 3) | Price of | | (Month/Day/Year) | (Instr. 8) | Derivative | e | | Securi | ties | (Instr. 5) | Bene |
| | Derivative | | | | Securities | | | (Instr. | 3 and 4) | | Owne |
| | Security | | | | Acquired | | | | | | Follo |
| | · | | | | (A) or | | | | | | Repo |
| | | | | | Disposed | | | | | | Trans |
| | | | | | of (D) | | | | | | (Instr |
| | | | | | (Instr. 3, | | | | | | ` |
| | | | | | 4, and 5) | | | | | | |
| | | | | | , , | | | | | | |
| | | | | | | | | | Amount | | |
| | | | | | | Date | Expiration | | or | | |
| | | | | | | Exercisable | Date | Title | Number | | |
| | | | | | | Lacicisable | Date | | of | | |
| | | | | Code V | (A) (D) | | | | Shares | | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | |
|---|---------------|-----------|-------------------|-------|--|--|
| | Director | 10% Owner | Officer | Other | | |
| Huck William 3141 HOOD STREET, SUITE 500 DALLAS, TX 75219 | | | VP, Operations | | | |
| | | | | | | |

Signatures

/s/ James E. Mutrie, attorney-in-fact for William
Huck

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

On December 21, 2016, pursuant to a plan of disposition adopted in accordance with Rule 10b5-1 of the Securities Exchange Act of 1934 (the "10b5-1 Plan"), Mr. Huck sold 6,000 shares in multiple trades at prices ranging from \$44.85 to \$45.71. The price reported above

- (1) reflects the weighted average sale price. Mr. Huck hereby undertakes to provide to the Securities and Exchange Commission staff, the issuer or any security holder of the issuer, upon request, full information regarding the number of shares and prices at which the transaction was effected.
- The first sale under the 10b5-1 Plan was on August 17, 2016 and the 10b5-1 Plan provides for sales of Mr. Huck's shares at or above a minimum share price on certain pre-determined dates until the 10b5-1 Plan terminates after 100,000 shares in the aggregate have been sold.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

Reporting Owners 2