RSP Permian, Inc. Form 4 September 09, 2016

FORM 4

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

OMB Number:

OMB APPROVAL

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF subject to **SECURITIES** Section 16.

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Form 5 obligations may continue. See Instruction

Check this box

if no longer

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

30(h) of the Investment Company Act of 1940

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	(Check all applicable)		
3141 HOOD S	ГREET, SU	TITE 500	(Month/Day/Year) 09/07/2016	Director 10% OwnerX Officer (give title Other (specify below) VP, Operations		
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
DALLAS, TX	75219		Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

(City)	(State) (Zip)	Table I - N	Non-De	rivative S	ecuri	ties Acqu	ired, Disposed of	, or Beneficiall	y Owned
1.Title of Security (Instr. 3)	any		nsaction(4. Securities Acquired on(A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Carrena		Code	e V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock	09/07/2016	S		6,000	D	39.73 (1) (2)	381,837	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						
rioporting o mior rumo, rumous	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
09/09/2016

Explanation of Responses:

**Signature of Reporting Person

- * 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 September 7, 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 \$39.43 to \$40.00. The price reported above

Date

- (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.

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