RSP Permian, Inc. Form 4 April 27, 2016

FORM 4

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB APPROVAL

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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. 30(h) of the Investment Company Act of 1940 See Instruction

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * Collins Ted Jr			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)		(Middle)	3. Date of Earliest Transaction	(Sheek all applicable)			
			(Month/Day/Year)	X DirectorX 10% Owner			
508 W. WALL STREET, SUITE 1200		SUITE	04/25/2016	Officer (give title Other (specify below) below)			
	(Street)		4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check			
			Filed(Month/Day/Year)	Applicable Line) _X_ Form filed by One Reporting Person			
MIDLAND, TX 79701				Form filed by More than One Reporting Person			

(City)	(State)	(Zip) Tabl	e I - Non-I	Derivative S	Securi	ties Acqu	iired, Disposed of	, or Beneficial	ly Owned
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. 4. Securities Acquired Transaction(A) or Disposed of (D) Code (Instr. 3, 4 and 5) (Instr. 8)			5. Amount of Securities Beneficially Owned Following Reported	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		
Common Stock	04/25/2016		S	18,100	D	\$ 31.14 (1) (2)	8,718,988	D	
Common Stock	04/25/2016		S	2,900	D	\$ 32.16 (2) (3)	8,716,088	D	
Common Stock	04/26/2016		S	21,000	D	\$ 32 (2) (4)	8,695,088	D	
Common Stock							1,000	I	By spouse (5)
							2,166,152	I	

Common See Stock Footnote

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)

1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if	4. Transacti	5. orNumber	6. Date Exer Expiration D		7. Title Amou		8. Price of Derivative	9. Nu Deriv
Security	or Exercise		any	Code	of	(Month/Day	/Year)	Under	, ,	Security	Secui
(Instr. 3)	Price of Derivative		(Month/Day/Year)	(Instr. 8)	Derivative Securities			Securi		(Instr. 5)	Bene
	Security				Acquired			(mstr.	3 and 4)		Owne Follo
	Socurity				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						
					4, and 5)						
									Amount		
						Date	Expiration		or		
						Exercisable	Date	Title	Number of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address	Relationships						
. 9	Director	10% Owner	Officer	Other			
Collins Ted Jr							
508 W. WALL STREET, SUITE 1200	X	X					
MIDLAND, TX 79701							

Signatures

/s/ James E. Mutrie, attorney-in-fact for Ted 04/27/2016 Collins, Jr.

> **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 April 25, 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. Collins sold 18,100 shares in multiple trades at prices ranging from \$30.96 to \$31.93. The price reported above

(1) reflects the weighted average sale price. Mr. Collins hereby undertakes to provide to the Securities and Exchange Commission staff (the "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.

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- The first sale under the 10b5-1 Plan was on March 29, 2016 and the 10b5-1 Plan provides for twice-monthly sales of Mr. Collins' shares at or above a minimum share price of \$26.00 per share on randomly pre-determined dates ("Trade Date"). No more than 500,000 shares may be sold in the aggregate under the 10b5-1 Plan and no more than 100,000 shares may be sold on any Trade Date. The 10b5-1 Plan terminates no later than November 22, 2016, regardless of whether the maximum of 500,000 shares in the aggregate have been sold.
- On April 25, 2016, pursuant to the 10b5-1 Plan, Mr. Collins sold 2,900 shares in multiple trades at prices ranging from \$31.98 to \$32.35.

 The price reported above reflects the weighted average sale price. Mr. Collins hereby undertakes to provide to the 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.
- On April 26, 2016, pursuant to the 10b5-1 Plan, Mr. Collins sold 21,000 shares in multiple trades at prices ranging from \$31.64 to \$32.29.

 The price reported above reflects the weighted average sale price. Mr. Collins hereby undertakes to provide to the 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.
- (5) These securities are held of record by Mr. Collins' spouse. Mr. Collins disclaims beneficial ownership of these securities except to the extent of his pecuniary interest therein.
 - These securities are held of record by Collins & Wallace Holdings, LLC. Mr. Collins and Wallace Family Partnership, LP are the members of Collins & Wallace Holdings, LLC. Accordingly, Mr. Collins may be deemed to share voting and dispositive power over the
- (6) reported securities of Collins & Wallace Holdings, LLC, and as a result may be deemed to beneficially own the reported securities of Collins & Wallace Holdings, LLC. Mr. Collins disclaims beneficial ownership of the reported securities in excess of his pecuniary interests therein.

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.