

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287  
Estimated average burden  
hours per response: 0.5

Check this box if no longer subject to  
Section 16. Form 4 or Form 5  
obligations may continue. See  
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>HEINEMANN ROBERT</u>  (Last) (First) (Middle) <u>C/O BERRY PETROLEUM COMPANY</u> <u>5201 TRUXTUN AVE., SUITE 300</u>  (Street) <u>BAKERSFIELD CA 93309</u>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>BERRY PETROLEUM CO [ BRY ]</u>  3. Date of Earliest Transaction (Month/Day/Year) <u>09/30/2004</u>  4. If Amendment, Date of Original Filed (Month/Day/Year)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  <input checked="" type="checkbox"/> Director 10% Owner  <input checked="" type="checkbox"/> Officer (give title below) Other (specify below)  <u>President and CEO</u>  6. Individual or Joint/Group Filing (Check Applicable Line)  <input checked="" type="checkbox"/> Form filed by One Reporting Person  Form filed by More than One Reporting Person
--	---	---

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
<u>Class A Common Stock</u>								<u>0</u>	<u>D</u>	

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
<u>Phantom Stock Units<sup>(2)(3)</sup></u>	<u>\$0<sup>(1)</sup></u>	<u>09/30/2004</u>		<u>A</u>		<u>7</u>		<u>08/08/1988<sup>(2)</sup></u>	<u>08/08/1988<sup>(3)</sup></u>	<u>Class A Common Stock</u>	<u>7</u>	<u>\$36.73</u>	<u>1,478</u>	<u>D</u>	
<u>Non-Statutory Stock Option (NSO)<sup>(4)</sup></u>	<u>\$16.14</u>							<u>12/02/2002</u>	<u>12/02/2012</u>	<u>Class A Common Stock</u>	<u>5,000</u>		<u>5,000</u>	<u>D</u>	
<u>Non-Statutory Stock Option (NSO)<sup>(4)</sup></u>	<u>\$19.22</u>							<u>12/02/2003</u>	<u>12/02/2013</u>	<u>Class A Common Stock</u>	<u>5,000</u>		<u>5,000</u>	<u>D</u>	
<u>Non-Statutory Stock Option (NSO)<sup>(4)</sup></u>	<u>\$28.75</u>							<u>06/16/2005</u>	<u>06/16/2014</u>	<u>Class A Common Stock</u>	<u>100,000</u>		<u>100,000</u>	<u>D</u>	

Explanation of Responses:

1. 1 for 1
2. Phantom Stock Units acquired under the Company's Non-Employee Director Deferred Stock and Compensation Plan in a transaction exempt under Rule 16b-3(c). Shares are exercisable under the terms of the Plan upon resignation from the Board.
3. Phantom Stock Units acquired under the Company's Non-Employee Director Deferred Stock and Compensation Plan in a transaction exempt under Rule 16b-3(c). Shares expire under the terms of the Plan upon resignation from the Board.
4. NSO - Right to buy Berry Petroleum Company Class A Common Stock

Remarks:

Kenneth A. Olson under POA 10/01/2004  
for Robert F. Heinemann  
\*\* Signature of Reporting Person Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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 Number.