

OMB APPROVAL	
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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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

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* <b>BOURDON LYNN L III</b>  (Last) (First) (Middle) <b>2727 NORTH LOOP WEST</b>  (Street) <b>HOUSTON TX 77008</b>  (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <b>Enterprise GP Holdings L.P. [ EPE ]</b>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner Officer (give title below) <b>X</b> Other (specify below) <b>Officer of Subsidiary</b>
	3. Date of Earliest Transaction (Month/Day/Year) <b>08/29/2005</b>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

**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			
Units Representing Limited Partnership Interests	08/29/2005		j <sup>(1)</sup>		7,500	A	\$28	7,500	D	

**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				
Class B Limited Partner Interest in EPE Unit L.P.	\$28	08/29/2005		A		40,982.13 <sup>(2)</sup>		08/23/2010	08/23/2010	Units	40,982.13 <sup>(2)</sup>	\$0	40,982.13 <sup>(2)</sup>	D <sup>(3)</sup>	

**Explanation of Responses:**

- These Units were purchased in connection with a registered initial public offering of 12,600,000 Units completed on August 29, 2005. The Units were purchased directly from the underwriters at a price equal to the public offering price.
- The limited partner interest entitles the reporting person to receive on August 23, 2010, an approximate number of Units equal to (i) the number of his derivative securities minus (ii) a number equal to (a) the number of his derivative securities multiplied by (b) the quotient of \$28.00 divided by the market price (as defined) of the Units on August 23, 2010. The limited partner interest is subject to forfeiture; it is also subject to increase if any other Class B limited partners leave the employment of EPCO, Inc., prior to August 23, 2010
- The power of attorney under which this form was signed is on file with the Commission.

**Remarks:**

John E. Smith, Attorney in Fact,  
on behalf of Lynn L. Bourdon, 08/31/2005  
III

\*\* 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.