Enterprise GP Holdings L.P.

Form 5

February 15, 2006

FORM								OMB API	PROVAL		
UNITED STATES SECURITIES AND EXCHANGE COMMISSION								OMB Number:	3235-0362		
Check this be no longer sul	Wash	Vashington, D.C. 20549					Expires:	January 31,			
to Section 16 Form 4 or Fo 5 obligations may continue See Instruction 1(b).	OWNERS	IENT OF CHANGES IN BENEFICIAL ERSHIP OF SECURITIES 16(a) of the Securities Exchange Act of 1934,					Estimated average burden hours per response 1.0				
* *	ings Section 17(a)		ity Holding	Compan	y Ac	t of 1935					
1. Name and Add Smith Edwin	Symbol	Name and Ticker or Trading rise GP Holdings L.P. [EPE]				5. Relationship of Reporting Person(s) to Issuer					
(Last)	(First) (Mic	3. Statemen (Month/Day 12/31/200	•				(Check all applicable) _X Director 10% Owner Officer (give title Other (specify				
2727 NORTH LOOP WEST, SUITE 100											
			nth/Day/Year)					oint/Group Reporting k applicable line)			
HOUSTON, TX 77008 _X_ Form Filed by One Reporting Person Form Filed by More than One Reporting Person											
(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1.Title of Security (Instr. 3)	ity (Month/Day/Year) Execution Date		Code (Instr. 3, 4 and 5)			d of (D)	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and	Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
Units				Amount	or (D)	Price	4)				
Representing Limited Partnership Interests	11/08/2005	Â	P	5,000	A	\$ 36.692	13,800	D (1)	Â		
· · · · · · · · · · · · · · · · · · ·								SEC 2270 (9-02)			

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

Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)	Execution Date, if	4. Transaction	5. Number	6. Date Exerc Expiration Da	ate	7. Title Amou	nt of	8. Price of Derivative
Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		i ear)	Under Securi (Instr.	, ,	Security (Instr. 5)
					(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	

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Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Othe		
Smith Edwin E						
2727 NORTH LOOP WEST, SUITE 100	ÂΧ	Â	Â	Â		
HOUSTON, TX 77008						

Signatures

By: John E. Smith, Attorney-in-Fact, on behalf of Edwin E.
Smith

02/15/2006

**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).
- (1) The power of attorney under which this form was signed is on file with the Commission.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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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