Instruction 1(b)

FORM 5

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Nachington	$D \subset$	205/10
Washington,	D.C.	20549

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0362							
Estimated average burden								
hours per response:	1.0							

Form 3 Holdings Reported.										nou	rs per i	response:	1.0					
Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940																		
Name and Address of Reporting Person* Smith Edwin E				2. Issuer Name and Ticker or Trading Symbol Enterprise GP Holdings L.P. [EPE]							k all app	,	ting Pe	()	Issuer Owner			
(Last) 2727 NO	(Fir	st) (N	Middle)	3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year) 12/31/2005						Year)		Office below	er (give title v)	Э	Othe belo	r (specify w)		
(Street) HOUSTO	ON TX		7008 Zip)	4. If Amen								3. Ind _ine) X	Form Form	dual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Table	e I - Non-Deriv	ative Sec	uritie	s Ac	quire	ed, Di	sposed	of, or	Benefici	ially	Owne	ed				
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.					or Dispose	Securi Benefi				ership n: Direct	7. Nature of Indirect Beneficial Ownership			
				(моптирау/теаг)		0,		Amou	nt	(A) or (D)			Issuer's Fiscal Year (Instr. 3 and 4)			ect (I)	(Instr. 4)	
Units Representing Limited Partnership Interests 11/08/			11/08/2005		P		•	5,	000	A \$36.6		692 13		13,800		D ⁽¹⁾		
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. Nu of Deriv Secul Acqu (A) or Dispo of (D) (Instr and 5	rative rities ired r osed	Expir (Mon	te Exercisable and ration Date th/Day/Year) Expiration cisable Date		Amou Secu Unde Deriv Secu and 4	rlying ative rity (Instr. 3	nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership t (Instr. 4)	

Explanation of Responses:

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

Remarks:

By: John E. Smith, Attorneyin-Fact, on behalf of Edwin E. 02/15/2006 Smith

** 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.