

February 6, 2007

Securities and Exchange Commission
450 Fifth Street NW
Washington, DC 20549

RE: Schedule 13G
Esco Technologies, Inc.
As of December 31, 2005

Gentlemen:

In accordance with Section 13(d)(5) of the Securities Exchange Act of 1934, attached please find a copy of Schedule 13G for the above named company showing beneficial ownership of less than 5% as of December 31, 2005 filed on behalf of Eagle Asset Management, Inc.

Very truly yours,

Damian Sousa
Vice President
Chief Compliance Officer
DS:dlv
Enclosures

cc: Office of the Corporate Secretary
Esco Technologies, Inc.
9900A Clayton Road
St. Louis, Missouri 63124

Securities Division
NASD Financial Center
33 Whitehall Street
New York, NY 10004

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Schedule 13G

Under the Securities Exchange Act of 1934
(Amendment No. 1)*

Esco Technologies, Inc.

(Name of Issuer)

Common Stock par value \$.01 per share
(Title of Class of Securities)

296315104
(CUSIP Number)

Check the following box if a fee is being paid with this statement _____. (A fee is not required only if the filing person: (1) has a previous statement on file reporting beneficial ownership of more than five percent of the class of securities described in Item 1; and (2) has filed no amendment subsequent thereto reporting beneficial ownership of five percent or less of such class.) (See Rule 13d-7.)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Page 1 of 5 Pages
CUSIP NO. 296315104

13G

- 1 NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON
Eagle Asset Management, Inc. 59-2385219
- 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
(A) _____
(B) _____
- 3 SEC USE ONLY
- 4 CITIZENSHIP OR PLACE OF ORGANIZATION
State of Florida
- | | | | | |
|---|----------------------------------|--------------------------------|---------------------------------------|-------------------------------------|
| NUMBER OF SHARES BENEFICIALLY OWNED AS OF DECEMBER 31, 2005 BY EACH REPORTING PERSON WITH | 5 SOLE VOTING POWER
1,115,389 | 6 SHARED VOTING POWER
- - - | 7 SOLE DISPOSITIVE POWER
1,115,389 | 8 SHARED DISPOSITIVE POWER
- - - |
|---|----------------------------------|--------------------------------|---------------------------------------|-------------------------------------|
- 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
1,115,389
- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES*
[_____]
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9
4.31%
- 12 TYPE OF REPORTING PERSON*
IA

*SEE INSTRUCTION BEFORE FILLING OUT!

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- Item 1(a) Name of Issuer:
Esco Technologies, Inc.
- Item 1(b) Address of Issuer's Principal Executing Offices:
9900A Clayton Road
St. Louis, Missouri 63124
- Item 2(a) Name of Person Filing:
Eagle Asset Management, Inc.
- Item 2(b) Address of Principal Business Office:
880 Carillon Parkway
St. Petersburg, Florida 33716

Item 2(c) Citizenship:
Florida

Item 2(d) Title of Class of Securities:
Common Stock par value \$.01 per share

Item 2(e) CUSIP Number:
296315104

Item 3 Type of Reporting Person:
(e) Investment Adviser registered under Section 203
of the Investment Advisors Act of 1940

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Item 4 Ownership as of December 31, 2006

(a) Amount Beneficially Owned:

1,115,389 shares of common stock beneficially owned including:

	No. of Shares
Eagle Asset Management, Inc.	1,115,389

(b) Percent of Class: 4.31%

(c) Deemed Voting Power and Disposition Power:

(i)	(ii)	(iii)	(iv)
Deemed to have Sole Power to Vote or to Direct to Vote	Deemed to have Shared Power to Vote or to Direct to Vote	Deemed to have Sole Power to Dispose or to Direct the Disposition	Deemed to have Shared Power to Dispose or to Direct the Disposition

Eagle Asset Management, Inc.	1,115,389	----	1,115,389	----
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Item 5 Ownership of Five Percent or Less of a Class:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following.

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Item 6 Ownership of More than Five Percent on Behalf of Another Person:

N/A

Item 7 Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company:

N/A

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Item 8 Identification and Classification of Members of the Group: N/A

Item 9 Notice of Dissolution of Group: N/A

Item 10 Certification:

By signing below I certify that to the best of my knowledge and belief, the securities referred to above were acquired in the

ordinary course of business and were not acquired for purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 6, 2007

EAGLE ASSET MANAGEMENT, INC.

Damian Sousa
Vice President
Chief Compliance Officer