AMVESCAP PLC/LONDON/ Form 6-K December 21, 2006

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER
Pursuant to Rule 13a-16 or 15d-16 Under
the Securities Exchange Act of 1934

For the month of December, 2006

Commission File Number 001-13908

AMVESCAP PLC

(Translation of registrant's name into English)

30 Finsbury Square, London EC2A 1AG, ENGLAND

(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F.

Form 20-F X Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Indicate by check mark whether by furnishing the information contained in this Form, the registrant is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes No X

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): 82- $\,$ N/A

Description of document filed: Notification of Major Interests in Shares

AMVESCAP PLC

IMMEDIATE RELEASE 21 December 2006

CONTACT: MICHAEL S PERMAN TEL: 020 7065 3942

NOTIFICATION OF MAJOR INTERESTS IN SHARES

1. Name of company

AMVESCAP PLC

2. Name of shareholder having a major interest

BARCLAYS PLC THROUGH THE LEGAL ENTITIES LISTED BELOW:-

Barclays Global Investors Canada Ltd

Barclays Bank Trust Company Ltd

Barclays Global Investors Japan Trust & Banking

Barclays Global Investors Japan Ltd

Barclays Capital Securities Ltd

Barclays Global Investors, N.A.

Barclays Capital Inc

Barclays Private Bank and Trust Ltd

Barclays Life Assurance Co Ltd

Barclays Global Investors Ltd

Barclays Global Investors Australia Ltd

Barclays Global Fund Advisors

Gerrard Ltd

3. Please state whether notification indicates that it is in respect of holding of the shareholder named in 2 above or in respect of a non-beneficial interest or in the case of an individual holder if it is a holding of that person's spouse or children under the age of 18.

NOTIFICATION IS IN RESPECT OF THE SHAREHOLDERS NAMED IN 2 ABOVE.

4. Name of the registered holder(s) and, if more than one holder, the number of shares held by each of them

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5. Number of shares/amount of stock acquired

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6. Percentage of issued class

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7. Number of shares/amount of stock disposed

NOT STATED

8. Percentage of issued class

NOT STATED

9. Class of security

ORDINARY SHARES

10. Date of transaction

14 DECEMBER 2006

11. Date company informed

21 DECEMBER 2006

12. Total holding following this notification

NOT STATED

13. Total percentage holding of issued class following this notification

BELOW 3%

14. Any additional information

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15. Name of contact and telephone number for queries

MICHAEL S PERMAN
TEL: 020 7065 3942

16. Name and signature of authorised company official responsible for making this notification

M.S. Perman AMVESCAP PLC COMPANY SECRETARY

Date of notification

21 DECEMBER 2006

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

AMVESCAP PLC
-----(Registrant)

Date 21 December, 2006

By /s/ Michael S. Perman (Signature)

Michael S. Perman Company Secretary