SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Schedule 13G

Under the Securities Exchange Act of 1934
(New)

FLUOR CORP
(Name of Issuer)

Common Stock
(Title of Class of Securities)

343412102
(CUSIP Number)

December 31, 2008
(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

[X] Rule 13d-1(b)

*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 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).

CUSIP No. 343412102

(1) Names of Reporting Persons.

Barclays Global Investors, NA., 943112180

(2) Check the appropriate box if a member of a Group*

(a) / / 
(b) /X/

(3) SEC Use Only

(4) Citizenship or Place of Organization

U.S.A.

(5) Sole Voting Power

Beneficially Owned

(6) Shared Voting Power

by Each Reporting Person

(7) Sole Dispositive Power

Person With

Shared Dispositive Power

(8) Shared Dispositive Power

Aggregate Amount Beneficially Owned By Each Reporting Person

(9) Aggregate Amount Beneficially Owned By Each Reporting Person

(10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*
(11) Percent of Class Represented by Amount in Row (9)
3.58%

(12) Type of Reporting Person*
BK

CUSIP No. 343412102
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(1) Names of Reporting Persons.
I.R.S. Identification Nos. of above persons (entities only).
BARCLAYS GLOBAL FUND ADVISORS

(2) Check the appropriate box if a member of a Group*
(a) / /  
(b) /X/  

(3) SEC Use Only

(4) Citizenship or Place of Organization
U.S.A.

Number of Shares    (5) Sole Voting Power
Beneficially Owned   2000908
by Each Reporting    ------------------------------
Person With     (6) Shared Voting Power

(7) Sole Dispositive Power
2,012,252
-----------------------------
(8) Shared Dispositive Power

(9) Aggregate Amount Beneficially Owned by Each Reporting Person
2,012,252

(10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*

(11) Percent of Class Represented by Amount in Row (9)
1.11%

(12) Type of Reporting Person*
IA

CUSIP No. 343412102
--------

(1) Names of Reporting Persons.
I.R.S. Identification Nos. of above persons (entities only).
BARCLAYS GLOBAL INVESTORS, LTD

(2) Check the appropriate box if a member of a Group*
(a) / /  
(b) /X/  

(3) SEC Use Only

(4) Citizenship or Place of Organization
England

Number of Shares (5) Sole Voting Power
Beneficially Owned 851,935
by Each Reporting Person With

(6) Shared Voting Power

(7) Sole Dispositive Power
994,507

(8) Shared Dispositive Power

(9) Aggregate
994,507

(10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*

(11) Percent of Class Represented by Amount in Row (9)
0.55%

(12) Type of Reporting Person*
FI

CUSIP No. 343412102

(1) Names of Reporting Persons.
I.R.S. Identification Nos. of above persons (entities only).

BARCLAYS GLOBAL INVESTORS JAPAN LIMITED

(2) Check the appropriate box if a member of a Group*
(a) / / 
(b) /X/

(3) SEC Use Only

(4) Citizenship or Place of Organization
Japan

Number of Shares (5) Sole Voting Power
Beneficially Owned 537,573
by Each Reporting Person With

(6) Shared Voting Power

(7) Sole Dispositive Power
537,573

(8) Shared Dispositive Power

(9) Aggregate
537,573

(10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*

(11) Percent of Class Represented by Amount in Row (9)
0.30%

(12) Type of Reporting Person*
FI
CUSIP No. 343412102

(1) Names of Reporting Persons.
I.R.S. Identification Nos. of above persons (entities only).

BARCLAYS GLOBAL INVESTORS CANADA LIMITED

(2) Check the appropriate box if a member of a Group*
(a) / /
(b) /X/

(3) SEC Use Only

(4) Citizenship or Place of Organization
Canada

Number of Shares   (5) Sole Voting Power
Beneficially Owned  172482
by Each Reporting  ------------------------------
Person With       (6) Shared Voting Power

(7) Sole Dispositive Power
172,482

(8) Shared Dispositive Power

(9) Aggregate
172,482

(10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*

(11) Percent of Class Represented by Amount in Row (9)
0.10%

(12) Type of Reporting Person*
FI

CUSIP No. 343412102

(1) Names of Reporting Persons.
I.R.S. Identification Nos. of above persons (entities only).

BARCLAYS GLOBAL INVESTORS AUSTRALIA LIMITED

(2) Check the appropriate box if a member of a Group*
(a) / /
(b) /X/

(3) SEC Use Only

(4) Citizenship or Place of Organization
Australia

Number of Shares   (5) Sole Voting Power
Beneficially Owned  7659
by Each Reporting  ------------------------------
Person With       (6) Shared Voting Power

(7) Sole Dispositive Power
7,659

(8) Shared Dispositive Power

(9) Aggregate
7,659
(8) Shared Dispositive Power

(9) Aggregate
7,659

(10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*

(11) Percent of Class Represented by Amount in Row (9)
0.00%

(12) Type of Reporting Person*
FI

CUSIP No. 343412102

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(1) Names of Reporting Persons.
I.R.S. Identification Nos. of above persons (entities only).

BARCLAYS GLOBAL INVESTORS (DEUTSCHLAND) AG

(2) Check the appropriate box if a member of a Group*
(a) / / 
(b) /X/ 

(3) SEC Use Only

(4) Citizenship or Place of Organization
Germany

Number of Shares (5) Sole Voting Power
Beneficially Owned by Each Reporting Person With (6) Shared Voting Power

(7) Sole Dispositive Power

(8) Shared Dispositive Power

(9) Aggregate

(10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares*

(11) Percent of Class Represented by Amount in Row (9)
0.00%

(12) Type of Reporting Person*
FI

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ITEM 1(A). NAME OF ISSUER
FLUOR CORP

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
6700 Las Colinas Blvd
Irving, TX 75039

ITEM 2(A). NAME OF PERSON(S) FILING
BARCLAYS GLOBAL INVESTORS, NA

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
ITEM 1(A). NAME OF ISSUER
FLUOR CORP

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
6700 Las Colinas Blvd
Irving, TX 75039

ITEM 2(A). NAME OF PERSON(S) FILING
BARCLAYS GLOBAL FUND ADVISORS

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
400 Howard Street
San Francisco, CA 94105

ITEM 2(C). CITIZENSHIP
U.S.A

ITEM 2(D). TITLE OF CLASS OF SECURITIES
Common Stock

ITEM 2(E). CUSIP NUMBER
343412102

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A

(a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o).
(b) // Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).
(c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c).
(d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
(e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).
(f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F).
(g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G).
(h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).
(i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80e-3).
j) // Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J)
k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K)
(i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3).
(j) // Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J)
(k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K)

ITEM 1(A). NAME OF ISSUER
FLUOR CORP

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
6700 Las Colinas Blvd
Irving, TX 75039

ITEM 2(A). NAME OF PERSON(S) FILING
BARCLAYS GLOBAL INVESTORS, LTD

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
Murray House
1 Royal Mint Court
LONDON, EC3N 4HH

ITEM 2(C). CITIZENSHIP
England

ITEM 2(D). TITLE OF CLASS OF SECURITIES
Common Stock

ITEM 2(E). CUSIP NUMBER
343412102

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A
(a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o).
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(c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c).
(d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
(e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).
(f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F).
(g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G).
(h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).
(i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3).
(j) // Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J)
(k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K)

ITEM 1(A). NAME OF ISSUER
FLUOR CORP

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
6700 Las Colinas Blvd
Irving, TX 75039

ITEM 2(A). NAME OF PERSON(S) FILING
BARCLAYS GLOBAL INVESTORS JAPAN LIMITED

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
Ebisu Prime Square Tower 8th Floor
1-1-39 Hiroo Shibuya-Ku
Tokyo 150-8402 Japan

ITEM 2(C). CITIZENSHIP
Japan

ITEM 2(D). TITLE OF CLASS OF SECURITIES
Common Stock
ITEM 1(A). NAME OF ISSUER
FLUOR CORP

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
6700 Las Colinas Blvd
Irving, TX 75039

ITEM 2(A). NAME OF PERSON(S) FILING
BARCLAYS GLOBAL INVESTORS CANADA LIMITED

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
Brookfield Place 161 Bay Street
Suite 2500, PO Box 614
Toronto, Canada
Ontario M5J 2S1

ITEM 2(C). CITIZENSHIP
Canada

ITEM 2(D). TITLE OF CLASS OF SECURITIES
Common Stock

ITEM 2(E). CUSIP NUMBER
343412102

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A
(a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o).
(b) // Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).
(c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c).
(d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
(e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).
(f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F).
(g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G).
(h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).
(i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3).
(j) // X/ Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J)
(k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K)
ITEM 1(A). NAME OF ISSUER
FLUOR CORP

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
6700 Las Colinas Blvd
Irving, TX 75039

ITEM 2(A). NAME OF PERSON(S) FILING
BARCLAYS GLOBAL INVESTORS AUSTRALIA LIMITED

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
Level 43, Grosvenor Place, 225 George Street
PO Box N43
Sydney, Australia NSW 1220

ITEM 2(C). CITIZENSHIP
Australia

ITEM 2(D). TITLE OF CLASS OF SECURITIES
Common Stock

ITEM 2(E). CUSIP NUMBER
343412102

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B),
OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A
(a) // Broker or Dealer registered under Section 15 of the Act
(b) // Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).
(c) // Insurance Company as defined in section 3(a) (19) of the Act
(d) // Investment Company registered under section 8 of the Investment
(e) // Investment Adviser in accordance with section 240.13d(b)(1)(i)(E).
(f) // Employee Benefit Plan or endowment fund in accordance with section
240.13d-1(b)(1)(i)(F).
(g) // Parent Holding Company or control person in accordance with section
240.13d-1(b)(1)(i)(G).
(h) // A savings association as defined in section 3(b) of the Federal Deposit
(i) // A church plan that is excluded from the definition of an investment
company under section 3(c)(14) of the Investment Company Act of 1940
(j) /X/ Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(i)(J)
(k) // Group, in accordance with section 240.13d-1(b)(1)(i)(K)

ITEM 1(A). NAME OF ISSUER
FLUOR CORP

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
6700 Las Colinas Blvd
Irving, TX 75039

ITEM 2(A). NAME OF PERSON(S) FILING
BARCLAYS GLOBAL INVESTORS (DEUTSCHLAND) AG

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
Apianstrasse 6
D-85774
Unterfohring, Germany

ITEM 2(C). CITIZENSHIP
Germany

ITEM 2(D). TITLE OF CLASS OF SECURITIES
Common Stock

ITEM 2(E). CUSIP NUMBER
343412102
ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B),
OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A
(a) // Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 78o).
(b) // Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).
(c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c).
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(e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).
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(g) // Parent Holding Company or control person in accordance with section
(h) // A savings association as defined in section 3(b) of the Federal Deposit
(i) // A church plan that is excluded from the definition of an investment
company under section 3(c)(14) of the Investment Company Act of 1940
(j) // Non-U.S. institution, in accordance with section 240.13d-1(b)(1)(ii)(J)
(k) // Group, in accordance with section 240.13d-1(b)(1)(ii)(K)

ITEM 4. OWNERSHIP

Provide the following information regarding the aggregate number and
percentage of the class of securities of the issuer identified in Item 1.

(a) Amount Beneficially Owned:
10215677
------------------------------------------------------------------------------

(b) Percent of Class:
5.63%
------------------------------------------------------------------------------

(c) Number of shares as to which such person has:
(i) sole power to vote or to direct the vote
8774824
------------------------------------------------------------------------------
(ii) shared power to vote or to direct the vote
- 
------------------------------------------------------------------------------
(iii) sole power to dispose or to direct the disposition of
10215677
------------------------------------------------------------------------------
(iv) shared power to dispose or to direct the disposition of
- 
------------------------------------------------------------------------------

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. //

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON
The shares reported are held by the company in trust accounts for the
economic benefit of the beneficiaries of those accounts. See also
Items 2(a) above.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY
WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY
Not applicable

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP
Not applicable

ITEM 9. NOTICE OF DISSOLUTION OF GROUP
Not applicable

ITEM 10. CERTIFICATION

By signing below I certify that, to the best of my knowledge
and belief, the securities referred to above were acquired and
are held in the ordinary course of business and were not
acquired and are not held for the purpose of or with the effect
of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

By signing below, I further certify that, to the best of my knowledge and belief, the foreign regulatory scheme applicable to each of: Barclays Global Investors Australia Limited, Barclays Global Investors Canada Limited, Barclays Global Investors (Deutschland) AG, Barclays Global Investors Japan Limited and Barclays Global Investors Limited, is substantially comparable to the regulatory scheme applicable to the functionally equivalent U.S. institutions. I also undertake to furnish to the Commission staff, upon request, information that would otherwise be disclosed in a Schedule 13D by such entities.

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.

February 6, 2009
Date

Signature

John McGahan
Principal

Name/Title