YPF SOCIEDAD ANONIMA Form SC 13D/A May 06, 2011

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D/A

Under the Securities Exchange Act of 1934 (Amendment No. 5 to Amended and Restated Schedule 13D)*

YPF SOCIEDAD ANÓNIMA (Name of Issuer)

CLASS D SHARES (PAR VALUE PS. 10 PER SHARE) (Title of Class of Securities)

> 984245100 (CUSIP Number)

Miguel Ángel Devesa del Barrio Repsol YPF, S.A. Paseo de la Castellana, 278—280 28046 Madrid, Spain Tel: (011-34) 91 314-2821

With a copy to:

Nicholas A. Kronfeld, Esq. Davis Polk & Wardwell LLP 450 Lexington Avenue New York, NY 10017 Tel: (212) 450-4000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

May 4, 2011 (Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), check the following box.

*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 disclosures provided in a prior cover page.

The information required on 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 ("Exchange Act") or otherwise subject to the liabilities of that section of the Exchange Act but shall be subject to all other provisions of the Exchange Act (however, see the Notes).

(Continued on following pages)

CUSIP No. 984245100 13D Page 2 of 10 Pages NAME OF REPORTING PERSONS REPSOL YPF, S.A. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see instructions) (a) o (b) o 3 SEC USE ONLY SOURCE OF FUNDS (see instructions) NOT APPLICABLE CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) or 2(e) o CITIZENSHIP OR PLACE OF ORGANIZATION KINGDOM OF SPAIN 7 SOLE VOTING POWER 268,358,619 CLASS D SHARES 8 SHARED VOTING POWER NUMBER OF SHARES BENEFICIALLY OWNED BY NOT APPLICABLE **EACH REPORTING PERSON** WITH SOLE DISPOSITIVE POWER 268,358,619 CLASS D SHARES 10 SHARED DISPOSITIVE POWER NOT APPLICABLE AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 268,358,619 CLASS D SHARES 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES (see instructions) o

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)

68.23% OF CLASS D SHARES

14 TYPE OF REPORTING PERSON (see instructions)

CO

Item 1. Security and Issuer

Repsol YPF, S.A. ("Repsol") hereby amends and supplements its report on Schedule 13D, as last amended on March 28, 2011 (as heretofore amended and restated, the "Schedule 13D"), with respect to the Class D Shares, nominal value PS. 10 per share (the "Class D Shares"), of YPF Sociedad Anónima, an Argentine corporation (the "Issuer" or the "Company"). The principal executive offices of the Issuer are located at Macacha Güemes 515, C1106BKK Ciudad Autónoma de Buenos Aires, Argentina. Unless otherwise indicated, capitalized terms used in this Amendment No. 5 (the "Amendment"), but not defined herein, shall have the meaning assigned to such terms in the Schedule 13D.

Item 2. Identity and Background

Item 2 of the Schedule 13D is hereby amended and supplemented by the following information:

On February 21, 2008, as previously reported on Repsol's Amended and Restated Schedule 13D/A dated February 22, 2008 (the "2008 Schedule 13D/A"), Repsol entered into a transaction (the "Transaction") pursuant to which it granted to Mr. Enrique Eskenazi, Mr. Sebastián Eskenazi, Mr. Matías Eskenazi Storey and Mr. Ezequiel Eskenazi Storey (collectively, the "Eskenazi Family") options to purchase from Repsol, within four years after the consummation of the Transaction, Class D shares or ADSs of the Issuer representing up to an additional 10.0% in the aggregate of the outstanding capital stock of the Issuer pursuant to an option agreement (the "Second Option Agreement" and such option, the "Second Option"), at a price per share to be determined in accordance with the formula contained in the Second Option Agreement and described in the 2008 Schedule 13D/A. Pursuant to the Second Option Agreement, Repsol also agreed to provide the financing of up to 48% of the exercise price required to be paid for the shares purchased by certain members of the Eskenazi family pursuant to an exercise of the Second Option.

The foregoing description of the Second Option Agreement does not purport to be complete and is subject to, and qualified in its entirety by, the full text of the Second Option Agreement, which was filed as Exhibit 7.05 to the 2008 Schedule 13D/A and is incorporated by reference herein.

On April 29, 2011, the Eskenazi Family assigned to Petersen Energía Inversora Holdings, S.A. ("PEISA") the Eskenazi Family's rights and obligations under the Second Option Agreement pursuant to an assignment agreement (the "Second Option Assignment Agreement").

On May 3, 2011, PEISA delivered written notice of its exercise of the Second Option and on May 4, 2011, Repsol acknowledged and accepted such exercise (such notice and acceptance, the "Second Option Exercise Notice"). The exercise of the Second Option is expected to result in the purchase by PEISA and the sale by Repsol of restricted American Depositary Shares representing 39,331,279 Class D shares of the Issuer (the "Second Option Shares"), at a price of USD \$33.1551 per Class D Share (determined in accordance with the formula contained in the Second Option Agreement), or USD \$1,304,032,488 in the aggregate. Pursuant to its financing undertaking in the Second Option Agreement, Repsol and/or its affiliates plan to enter into a credit agreement with PEISA to provide a loan of approximately USD \$625,935,594 in order to partially finance the aggregate exercise price to be paid by PEISA to Repsol. The consummation of the exercise of the Second Option (the "Second Option Closing") is expected to occur on or about May 12, 2011, subject to certain customary closing conditions and the execution of certain definitive documentation. Subject to and until the Second Option Closing, Repsol will retain all voting and economic rights with respect to the Second Option Shares.

The name, business address, present principal occupation or employment and citizenship of each director and executive officer of Repsol is set forth on Schedule A attached hereto.

During the last five years, none of Repsol and, to the best of Repsol's knowledge, the persons listed on Schedule A attached hereto, has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order enjoining future

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violations of, or prohibiting or mandating activities subject, to federal or state securities laws or finding any violation with respect to such laws.

Item 3. Source and Amount of Funds or Other Consideration

This Amendment relates to the transactions in the Class D Shares entered into by Repsol as described in Item 2 above and Item 4 below. Repsol is not purchasing any shares of the Issuer.

Item 4. Purpose of Transaction

Item 4 of the Schedule 13D is hereby amended and supplemented by the second, third, fourth and fifth paragraphs under Item 2 above.

Except as set forth herein and set forth below, Repsol does not have any plans or proposals that relate to or would result in any of the transactions described in subparagraphs (a) through (j) of Item 4 of Schedule 13D.

Repsol intends, subject to market and other conditions, to make a material public offering of Class D shares in an amount to be determined of the Issuer's outstanding capital stock to investors located in the Republic of Argentina during the second half of 2011, although there can be no assurance that such offering and sale will take place.

Item 5. Interest in Securities of the Issuer

Item 5(a) of the Schedule 13D is hereby amended and supplemented by the following information:

Repsol beneficially owns, for the purpose of Rule 13d-3 promulgated under the Exchange Act, 268,358,619 Class D Shares, representing approximately 68.23% of the Issuer's outstanding Class D Shares. Subject to and following the Second Option Closing, Repsol will beneficially own 229,027,340 Class D Shares, representing approximately 58.23% of the Issuer's outstanding Class D Shares.

Except as set forth herein, none of Repsol, and, to the best of its knowledge, any persons named in Schedule A hereto owns beneficially any shares of the Issuer.

Item 5(c) of the Schedule 13D is hereby amended and supplemented by the following information:

Other than the transactions described in Item 4 of this Amendment and other than the transactions set forth in Repsol's Amendment No. 4 to the Schedule 13D as filed with the SEC on March 28, 2011, there have been no transactions in the Class D Shares of the Issuer effected by Repsol or, to the knowledge of Repsol, any person named in Schedule A, during the past sixty days.

Item 6. Contracts, Arrangements, Understandings or Relationships with Respect to Securities of the Issuer

Except for the contracts, arrangements, understandings or relationships (legal or otherwise) described in this Schedule 13D and the matters contemplated above in Item 4 and described below in this Item 6, to the best knowledge of Repsol, there are no contracts, arrangements, understandings or relationships (legal or otherwise), including, but not limited to, transfer or voting of any of the securities, finder's fees, joint ventures, loan or option arrangements, puts or calls, guarantees of profits, division of profits or loss, or the giving or withholding of proxies, between Repsol and/or the persons enumerated in Schedule A, and any other person, with respect to any securities of the Issuer, including any securities pledged or otherwise subject to a contingency the occurrence of which would give another person voting power or investment power over such securities other than standard default and similar provisions contained in loan

agreements.

Second Option Exercise Notice and Financing

Under the terms of the Second Option Exercise Agreement, on May 3, 2011, PEISA provided the Second Option Exercise Notice to Repsol, informing Repsol of its exercise of the Second Option and Repsol accepted such notice on May 4, 2011. The Second Option Exercise also included a request by PEISA for Repsol to finance USD

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\$625,935,594 of the aggregate exercise price to be paid by PEISA to Repsol pursuant to Repsol's financing undertaking contained in the Second Option Agreement. Repsol and/or its affiliates plan to enter into a credit agreement with PEISA to provide a loan of approximately USD \$625,935,594 in order to partially finance such aggregate exercise price.

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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.

Repsol YPF, S.A.

By: /s/ Miguel Ángel Devesa del Barrio

Name: Miguel Ángel Devesa del

Barrio

Title: Chief Financial Officer

Date: May 6, 2011

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SCHEDULE A

DIRECTORS AND EXECUTIVE OFFICERS OF REPSOL YPF, S.A.

The name, business address, title, present principal occupation or employment of each of the directors and executive officers of Repsol YPF, S.A. ("Repsol"), are set forth below. Unless otherwise indicated, the business address of each such person is Paseo de la Castellana, 278—280, 28046 Madrid, Spain. Unless otherwise indicated, each occupation set forth opposite an individual's name refers to Repsol. Unless otherwise indicated below, all of the persons listed below are citizens of Spain.

Name and Business or Home Address and Citizenship Position with Repsol YPF, S.A and Present Principal Occupation

Directors

Antonio Brufau Niubó

Chairman and Director, Member and Chairman of the Delegate Committee (Comisión Delegada) and Chief Executive Officer of Repsol YPF, S.A.

Vice-Chairman of Gas Natural SDG, S.A. and Chairman of YPF, S.A. and Foundation Repsol; Member of the European Round Table of Industrialists (ERT), the Advisory Board of Confederación Española de Organizaciones Empresariales (CEOE), the Asociación Española de Directivos, Foundation CEDE (Confederación Española de Directivos y Ejecutivos), Foundation Instituto Ildefons Cerdá and the Círculo de Economía.

Luis F. del Rivero Asensio

1st Vice-Chairman and Director, nominated for membership by Sacyr Vallehermoso, S.A., and Member of the Delegate Committee (Comisión Delegada) of Repsol YPF, S.A.

Executive Chairman of Sacyr Vallehermoso, S.A.; Chairman of Vallehermoso División Promoción, S.A. and Director of Testa Inmuebles en Renta, Sacyr, S.A.U. and Valoriza Gestión, S.A.

Isidre Fainé Casas

2nd Vice-Chairman and Director, nominated for membership by Criteria Caixa Corp. (Caja de Ahorros y Pensiones de Barcelona "la Caixa" Group), and Member of the Delegate Committee (Comisión Delegada) of Repsol YPF, S.A.

Chairman of "la Caixa", Criteria CaixaCorp, S.A., CECA (Confederación Española de Cajas de Ahorros) and Foundation "la Caixa"; Vice Chairman of Abertis Infraestructuras, Sociedad General de Aguas de Barcelona and Telefónica; Director of Banco BPI and Grupo

Financiero Inbursa; and Director of The Bank East of Asia, Limited.

Juan Abelló Gallo

Director, nominated for membership by Sacyr Vallehermoso, S.A., Member of the Strategy, Investment and Corporate Social Responsibility Committee of Repsol YPF, S.A.

Chairman of Torreal and Alcaliber (representing Nueva Compañía de Inversiones); Vice-Chairman of Sacyr Vallehermoso (representing Nueva Compañía de Inversiones) and CVNE (representing Austral, B.V.); and Director of Zed Worldwide (representing Nueva Compañía de Inversiones).

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Paulina Beato Blanco

Director, Independent outside director as determined in accordance with the Bylaws and the Regulations of the Board of Directors, and member of the Audit and Control Committee of Repsol YPF, S.A.

Advisor to the Iberoamerican Secretary General (Secretaría General Iberoamericana), professor for Economic Analysis in various universities and member of a special board for promoting the Knowledge Society in Andalusia.

Artur Carulla Font

Director, Independent outside director as determined in accordance with the Bylaws and the Regulations of the Board of Directors, Member of the Delegate Committee (Comisión Delegada) and Chairman of the Nomination and Compensation Committee of Repsol YPF, S.A. He has been appointed Lead Independent Director of the Board of Directors of Repsol YPF in accordance with the provisions of the ByLaws and of the Regulations of the Board of Directors.

Chairman of Agrolimen and its affiliated companies Affinity Petcare, Preparados Alimenticios (Gallina Blanca Star), Biocentury, The Eat Out Group and Reserva Mont-Ferrat; Director and Secretary of Arbora & Ausonia, Quercus Capital Riesgo, S.G.E.C.R and Consorcio de Jabugo; Member of the Regional Board of Telefónica in Catalonia; Member of the Advisory Boards of EXEA Empresarial and Roca Junyent; Vice-Chairman of Círculo de Economía and Foundation ESADE: Member of IAB (International Advisory Board) of the Generalitat de Catalunya, Foundation Lluis Carulla, Management Board of Instituto de la Empresa Familiar, Foundation MACBA (Museo de Arte Contemporaneo de Barcelona) and of FUOC (Fundación para la Universitat Abierta de Cataluña).

Luís Carlos Croissier Batista

Director, Independent outside director as determined in accordance with the Bylaws and the Regulations of the Board of Directors and Member of the Strategy, Investment and Corporate Social Responsibility Committee of Repsol YPF, S.A.

Director of Adolfo Dominguez, Testa Inmuebles en Renta,

Eolia Renovables de Inversiones SCR, Grupo Copo de Inversiones and Sole Director of Eurofocus Consultores. Director, Independent outside director as determined in

accordance with the Bylaws and the Regulations of the Board of Directors and Chairman of the Audit and Control

Committee of Repsol YPF, S.A.

Ángel Durández Adeva

Director of Gestevisión Telecinco; Member of the Advisory Board of Exponencial-Agencia de Desarrollos Audiovisuales, Ambers & Co and FRIDE (Foundation for the international relations and the foreign development); Chairman of Arcadia Capital and Información y Control de Publicaciones; Member of Foundation Germán Sánchez Ruipérez and Foundation Independiente and Vicepresident of Foundation Euroamérica.

Javier Echenique Landiríbar

Director, Independent outside director as determined in accordance with the Bylaws and the Regulations of the Board of Directors, Member of the Delegate Committee (Comisión Delegada), and of the Audit and Control Committee of Repsol YPF, S.A.

Vice-Chairman of Banco Sabadell, Director of Telefónica Móviles México, Actividades de Construcción y Servicios (ACS), Grupo Empresarial Ence and Celistics, L.L.C.; Delegate of the Board of Telefónica in the Basque region; Member of the Advisory Board of Telefónica Spain; Member of Foundation Novia Salcedo and Círculo de Empresarios Vascos.

Mario Fernández Pelaz

Director, Independent outside director as determined in accordance with the Bylaws and the Regulations of the Board of Directors and member of

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the Nomination and Compensation Committee. Chairman of BBK (Bilbao Bizkaia Kutxa).

María Isabel Gabarró Miquel

Director, Independent outside director as determined in accordance with the Bylaws and the Regulations of the Board of Directors, Member of the Nomination and Compensation Committee and Member of the Strategy, Investment and Corporate Social Responsibility Committee.

Registered on the Bar of Notaries of Barcelona; Member of the Sociedad Económica Barcelonesa de Amigos del País.

Jose Manuel Loureda Mantiñán Director, nominated for membership by Sacyr Vallehermoso, S.A., Member of the Nomination and Compensation Committee and of the Strategy, Investment and Corporate Social Responsibility Committee of Repsol YPF, S.A.

> Director of Sacyr Vallehermoso (as representative of Prilou), Chairman of Valoriza Gestión, S.A. and Hoteles Bisnet and Director of Vallehermoso División Promoción, S.A.U., Testa Inmuebles en Renta, Sacyr, S.A.U. and Somague S.G.P.S.

Juan María Nin Génova

Director, nominated for membership by Criteria Caixa Corp ("la Caixa" Group) and member of the Nomination and Compensation Committee and Chairman of the Strategy, Investment and Corporate Social Responsibility Committee of Repsol YPF, S.A.

President and CEO of "la Caixa"; Deputy Chairman of Foundation "la Caixa" and Criteria CaixaCorp; Member of the Board of Directors of SegurCaixa Holding, Gas Natural SDG, Banco BPI, Erste Group Bank, A.G. and Grupo Financiero Inbursa; Member of the Board of Governors of University of Deusto and Foundation ESADE Business School; Member of the Board of Directors of Círculo Ecuestre and APD (Asociación para el Progreso de la Dirección), Foundation Federico García Lorca and Foundation Council Spain-U.S.A.; Deputy Chairman of Foundation Council Spain-India; Member of the Economic Group of Spain-China Forum; Secretary of the Federació Catalana de Caixes d'Estalvi; Member of the Economic Policy Commission of the Barcelona Chamber of Commerce.

PEMEX Internacional España, S.A.

José Manuel Carrera Panizzo serves as representative of PEMEX Internacional España, S.A. (a related company of PEMEX) on the Board of Directors of Repsol YPF, S.A. Spanish law permits limited liability companies to serve as members of the Board of Directors. A company serving in such a capacity must appoint a natural person to represent it at the meetings of the Board of Directors. Director, Member of the Delegate Committee (Comisión Delegada) and of the Strategy, Investment and Corporate Social Responsibility Committee of Repsol YPF, S.A.

Administrative and Finance Director of P.M.I. Comercio Internacional, S.A. de C.V. and Managing Director of Pemex internacional España, S.A. and P.M.I. Holdings Petróleos España, S.L.

Citizen of: Mexico

Henri Philippe Reichstul

Director, Independent outside director as determined in accordance with the Bylaws and the Regulations of the Board of Directors and Member of the Delegate Committee (Comisión Delegada) of Repsol YPF, S.A.

Member of the Strategic Board of ABDIB, Director of Ashmore Energy Internacional, Member of Coinfra, Member of the Advisory Board of Lhoist do Brasil Ltda., Member of the Supervisory Board of Peugeot Citroen, Member of the International Advisory Board of Group Credit Agricole and Vice-Chairman of the Board of the Brazilian Foundation for Sustainable Development.

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Citizen of: Brazil

Luis Suárez de Lezo Mantilla Director, Member of the Delegate Committee (Comisión

Delegada), Secretary of the Board of Directors, Executive

Director and General Counsel of Repsol YPF, S.A.

Director of Gas Natural SDG, S.A., YPF and Repsol-Gas Natural LNG, Vice Chairman of Foundation Repsol and member of the Environment and Energy Commission of

the International Chamber of Commerce (ICC).

Name and Business or Home Address and

Citizenship

Position with Repsol YPF, S.A and Present Principal Occupation

Executive Officers (Who Are Not

Directors)

Miguel Martínez San Martín **Chief Operating Officer**

Pedro Fernández Frial **Executive Managing Director of Downstream** Nemesio Fernández-Cuesta Luca de Tena Executive Managing Director of Upstream

Group Managing Director of Human Resources

Cristina Sanz Mendiola and Organization

Deputy Executive Managing Director of YPF Antonio Gomis Sáez

Miguel Angel Devesa del Barrio Chief Financial Officer

Group Managing Director of Communication and

Head of Chairman's Office Begoña Elices García

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