TELEFONICA S A Form 6-K April 26, 2018

FORM 6-K SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 Report of Foreign Private Issuer

Pursuant to Rule 13a-16 or 15d-16 of the Securities Exchange Act of 1934

For the month of April, 2018

Commission File Number: 001-09531

Telefónica, S.A. (Translation of registrant's name into English)

Distrito Telefónica, Ronda de la Comunicación s/n, 28050 Madrid, Spain 3491-482 87 00

(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of 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):

Yes NoX

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):

Yes NoX

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 NoX

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

Telefónica, S.A.

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RESULTS JANUARY | MARCH 2018

This document and the Q&A session may contain forward-looking statements and information (hereinafter, the "Statements") relating to the (hereinafter, the "Company" or "Telefónica") or otherwise. These Statements may include financial forecasts and estimates based on assumptions or statements regarding plans, objectives and expectations that make reference to different matters, such as the customer base and its evolution, growth of the different business lines and of the global business, market share, possible acquisitions, divestitures or other transactions, Company's results and other aspects related to The Statements can be identified, in certain cases, through the use of words such as "forecast", "expectation", the activity and situation of the Company. "anticipation", "aspiration", "purpose", "belief" or similar expressions or variations of such expressions. These Statements reflect the current views of Telefónica respect to future events, do not represent, by their own nature, any guarantee of future fulfilment, and are subject to risks and uncertainties that could cause the final developments and results to materially differ from those expressed or implied by such Statements. These risks and uncertainties include those identified in the documents containing more comprehensive information filed by Telefónica before the different supervisory authorities of the securities markets in which its shares are listed and, in particular, the Spanish National Securities Market Commission. Except as required by applicable law, Telefónica does not assume any obligation to publicly update the Statements to adapt them to events or circumstances taking place after the date hereof, including changes in the Company's business or business development strategy or any other unexpected circumstance. This document and the Q&A session may contain summarized, non-audited or non-GAAP financial information. The information contained herein and therein should therefore be considered as a whole and in conjunction with all the public information regarding the Company available, including any other documents released by the Company that may contain more detailed information. In October 2015, the European Securities Markets Authority (ESMA) published guidelines on Alternative Performance Measures (APM), applicable to regulated information published from July 3, 2016. Information related to APM used in this presentation are included in the consolidated financial statements and consolidated management report for the year 2017 submitted to the Spanish National Securities Commission (CNMV), in Note 2, page 283 of the .pdf filed. Recipients of this document are invited to read it. Neither this document nor the Q&A session nor any of their contents constitute an offer to purchase, sale or exchange any security, a solicitation of any offer to purchase, sale or exchange any security, or a recommendation or advice regarding any security Disclaimer 1

Q1 18 Highlights Mr. Ángel Vilá COO

Highlights | Execution of strategic priorities | Enable people with the | power of connectivity | • 357m accesses; +36% LTE; +7% smartphones; +20% FFTx/Cable; +5% Pay TV | • Extending leadership in FTTx/Cable: 45.8m premises passed (+5.9m y-o-y) | • More services, more usage; more ARPU | Operate on the properties of the properties of

Key financials Q1 18 Q1 18 (m) Reported IFRS Q5 & 9 Reported y-o-y Organic y-o-y Revenues 12,190 (7.2%) 1.9% Service revenues 11,040 (9.4%) 0.8% OIBDA 3,864 (3.9%) 3.3% Underlying OIBDA 3,863 (5.6%) OIBDA margin 31.7% 1.1 p.p. 0.4 p.p. OpCF (ex-spectrum) 2,381 (1.0%) 4.4% Net Income 837 7.4% EPS (m) 0.12 (13.2%) Underlying EPS (m) 0.17 (3.0%) FCF 550 (8.7%) Net Financial Debt 43,975 (9.8%) Reported figures y-o-y affected by • Negative FX evolution • Regulation • Restructuring costs, tower sales • Different accounting standards (2018 IFRS 15 m) FFRS 15 impacts Q1 18 m -€10m in Revenues m +€11m in OIBDA Accelerating growth, from Revenues to OpCF Growing FCF pre-dividends to minorities Ongoing debt reduction Mid-single digit growth in Net Income 3

Guidance confirmed Operating 2018 guidance organic Guidance 2018E (IAS 18) Q1 18 Revenues Growth of around 1% (despite regulation dragging: -0.9 p.p.) +1.9 % OIBDA Margin Continues expanding around 0.5 p.p. (despite regulation dragging -1.6 p.p. on OIBDA growth) +0.4 p.p. CAPEX ex-spectrum/Sales Around 15% 12.3 % Revenues +1.9% Solid balance sheet Additional deleveraging Improved ROCE Attractive, stable & sustainable dividend Dividends to be paid in 2018 calendar yr. \notin 0.40/sh. Cash: 15/Jun/18 \notin 0.20/sh. Cash: 20/Dec/18 \notin 0.20/sh. 2018 DIVIDEND \notin 0.4/SH. CASH Interim Dec-18 \notin 0.20/sh. Final Jun-19 \notin 0.20/sh. OIBDA +3.3% OpCF +4.4% Q1 18 4

Q1 15 Q1 16 Q1 17 Q1 18 Q1 15 Q1 16 Q1 17 Q1 18 Strong Q1 FCF, operational leverage Sustained free cash flow generation FCF 550 €m S63 69 603 Q1 q-o-q change in Net Debt €m ND decrease in Q1, changing trends vs. previous years €m R,374 (255) 693 938 Q71 ...FCF to improve throughout the year Q1 FCF affected by WC seasonality and extraordinary minority payment... OpCF WC Interest payments Taxes & Others FCF before Minorities Minorities FCF (939) (698) (19) 719 (168) 550 +15.2% Negative seasonality 5 ND -9.8% y-o-y; (-€4.8bn y-o-y)

FX impact structurally neutralised OIBDA -372m y-o-y FX impact in FCF is mitigated, "natural hedge" FCF -26m y-o-y •4 appreciation, the major drag in Q1 - Q1: BRL and ARS explain 80% of negative FX impact in OIBDA -FX spot rates explain Q1 increase in Net Debt •At current FX, weaker H1 18 y-o-y comps than in H2 18 •Strong organic contribution - Q1 y-o-y: +250m to revenues; +134m to OIBDA FX impact in Q1 FCF 134m to OIBDA FX impact in Q1 FCF 134

• M4M evolution to add more value - Revamped mobile in Latam "Movistar Series" launch (Feb-18) "Movistar Play" (OTT video) in 13 countries - New bundle with TV at the core "Fusion+ Ocio Total" (300 Mbps + series&films +2 mobiles) (Feb-18) - Enhanced prepaid portfolio in mid-high tiers More data and digital services ("GoRead", "NBA", "Vivo Bem") • Continued to develop recurrent data plans in prepaid Latam ->10% ARPU increase • Enriched prepaid mid-level plans (Mar-18) Monetisation focus enhanced Attracting, bundling and upselling Capturing more usage with improved capabilities More users, more data services (penetration %) More usage, more revenue Smartphones LTE FTTx/FBB 40% 54% +5 p.p. 64% +11 p.p. +9 p.p. TG Traffic +69% usage +10% ARPU (vs. DSL) LTE FTTH x2.6 data +20% ARPU y-o-y +121% Traffic 4G 61% o/total Launched in Feb. + 8 UPLIFT y-o-y

45% Video Revs Pioneer in AI, Cognitive Intelligence in an open data ecosystem We are a platform Co. to better serve customer needs Platform UBB coverage premises passed (o/w 46m owned)76m T.5G GER, BRA, MEX, COL 5G Spain Cities TK Unified video platform Fixed equipment New tech (Smart WiFi) 61% E2ED level (+9 p.p. yoy) Qst Leading-edge Smart networks to cope with data explosion Q# Network Virtualisation Platform 2nd Platform 3rd Platform 4th Europe92% E2E Digitalisation enabling Real Time processes 25% Full Stack (customers migrated) Distinctive value proposition 53% Connectivity & Services over Connectivity Revs. o/Total. (+3 p.p. y-o-y) €1,608m Digital Revenues (+29% vs. Q1 17 organic) 1.3 PB/month Data being normalised 30 TFlops Processing capacity

AURA Commercial launch in March Advanced Revs. (IoT, Cloud, Sec...)19% Content Revs. 26% Personalised Quality Experience 9 4G cov. 66% Latam Weight o/digital revs.

Aura, the new customer relationship model players Main virtual assistants 2019E Movistar Home Aura will come to the home via Movistar Home device Aura is available in 6 countries Data Portability Cooperation OPEN ECOSYSTEM BASED ON DATA TRANSPARENCY & SECURITY Aura will empower the customer Aura works with Our 4th Platform allows us to be wherever our customers are Simply Talk to Aura A one-stop shop for customers' needs Unified and Digital 10 In the coming months

Digitalisation, a leap forward in our bold transformation Enhancing Customer Experience and Operational Efficiency Focus on 5 priorities centred on the customer journey.... Increase Direct customer interaction for sales Foster top-ups & add-ons through own digital channels x2.5 sales in self- assisted channels +10% incidents solved remotely Make the payments & collections more efficient and user friendly Improve experience Fulfilment and technical support +12% payments in self- assisted channels -30% calls handled in call centre per access care experience 2017-20 Digitalisation drives cost savings.....higher CSI and digital engagement x4.8 unique users in app Enhanced customer Addressable cost base R017 €11.6bn S2% o/OpEx Digitalisation gross savings Run-rate 2020E >€1.0bn Increased customer satisfaction, ...initiatives already onboard to capture impact along 2018 Offer personalisation Smart top-up loyalty and usage Gross savings 2018 >€0.3bn offers Credit card payment One-click payment Direct debit adoption Self-diagnosis & remote incidence resolution tools Traceability in app Robotics processes Dynamising CX online Online Top-Ups Sales in digital channels Remotely solved incidences Payments in in App Calls to Call Centre per channels Unique users access 11

14 Ms. Laura Abasolo CFCO Q1 18 Results

• "M4M", main strategy in the market in Q1 • Increasingly competitive offering: solid Mobile, Fiber (retail & wholesale) and TV • "Fusión" growing base and ARPU - Improved value mix: 27% in high-value (+6 p.p. y-o-y) • Churn reduction across services - "Fusión", FBB, TV, Mobile: -0.1 p.p. q-o-q Unmatchable platforms in quality and scale Spain | Solid trading in a rational market 81.6 86.1 87.8 Q1 17 Q4 17 Q1 18 3 114 178 81 269 (6) 127 146 80 276 FBB FTTH NEBA Fiber TV Mobile Contract Q4 17 Q1 18 Net adds ('000) "Fusión" ARPU Q1 18 FTTH penetration +2.2m 19.7m FTTH p. passed Q1 17 52% 10% 59% 24% o/FBB Retail o/Wholesale accesses +7.5% +1.9% +17% +17% "Fusión" TV accesses y-o-y "Fusión" Mobile accesses Q1 18 y-o-y -1% +14% +134% +9% +6% Improving churn • Largest Fiber, LTE and TV coverage - Wholesale upside (just 24% accesses on Fiber) - Fiber wholesale agreements with main players 12 Base y-o-y

Sustained growth p.p.)(0.2 p.p.) 39.5% 28.3% OIBDA margin OpCF margin commercial cost q-o-q Upside in savings (personnel, digitalisation...) Margin impacted by revenue mix - +0.2 p.p. y-o-y excluding Wholesale/MVNO loss OpCF (-0.7%) on different CapEx phasing Serv. Revs. growth improved to +0.8%; +1.8% ex-MTR/MásMóvil OIBDA y-o-y ex-provisions & cap.gains (1.5%) (0.8%) 0.4% 0.7% 0.8% (2.4%) (2.1%) (0.6%) 0.5% 0.6% Q1 17 Q2 17 Q3 17 Q4 17 Q1 18 y-o-y organic Strong margins (0.5 opEx (Revs. y-o-y organic Strong margins (0.5 opEx (Revs. y-o-y organic Strong margins (0.5 opEx increase eased (+0.6% y-o-y; -0.1 p.p. q-o-q) - Lower capex (+3.9%) & OpEx (+3.9%) & OpEx (-0.7%) on different CapEx phasing Serv. Revs. growth improved to +0.8%; +1.8% ex-MTR/MásMóvil - Acceleration in "Consumer": +2.9% in Q1 (+1.6 q-o-q) - Improvement in "Business": -0.6% in Q1 (+2.0 q-o-q) - Decline in "Wholesale & Other": -3.5% in Q1 (-7.7 q-o-q) Negative impacts at Wholesale revs. line start to kick-in - Wholesale/MVNO loss and MTR cut - Partially offset by fiber wholesale growth Serv. Revs. ex-MTR/MásMóvil OIBDA y-o-y ex-provisions & cap.gains (1.5%) (0.8%) 0.4% 0.7% 0.8% (2.4%) (2.1%) (0.6%) 0.5% 0.6% Q1 17

Continuous market momentum

• Solid Q1 mobile contract net adds (+157K)

-Strong Partner trading on 4G offers

-LTE cust. (+15% y-o-y); penetration

39% (+7 p.p.)

• O2 Free ARPU accretive

• O2 Ranked #2 in Connect Mobile Hotline-Test

Germany | Positive financial performance

Successful data

usage monetisation highlights

O2 Free "M" tariff LTE customers Mobile Data

traffic

Q1 18 Q4 17

-6GB / month 16.1m

(+2.1% q-o-q)

+46%

y-o-y

-46% y-o-y); handset sales (+10.5%)

• Sustained OIBDA growth and margin expansion

-Regulatory drag (-€14m vs. -€7m in Q1 17)

Incremental synergy savings on-track (OIBDA: €35m; CapEx: -€15m)

• CapEx (-5.6% y-o-y): efficient network consolidation & LTE rollout

Financials

(y-o-y organic)

+0.2% (0.5%)

+0.7% +7.1% Ex-regulation Margin

+0.3% +4.2% 22.8% 11.7% +0.3 p.p. +0.9 p.p. (0.4%)

Share 14

Robust financials Largest customer base & trusted network 2.9% 6.1% Revenues OIBDA UK | Solid financials, capability enhanced network: 32.0m customers (incl. MVNO partners) • Continued contract base expansion, despite seasonally slower Q - Market-leading churn: 1.0% (broadly stable y-o-y and q-o-q) • Network quality assured with latest spectrum auction results - 40 MHz of 2.3 GHz and 40 MHz of 3.4 GHz - Av. data usage per smartphone +36% vs. Q1 17 MSR ex-regulation Q1 18 • Revenue growth (ex-reg.): +4.2% y-o-y (vs. +4.5% in Q4) - Growing subscriptions, handsets, MVNO & non-mobile revenues • Consistent OIBDA growth - Ongoing impact from RLAH (-€23m in Q1; -€25m in Q4) - Supported by reduced annual licence fee payment OFF growth +32.9% y-o-y on CapEx phasing Margin 2.4% 2.1% 3.5% 2.7% 2.8% Q1 17 Q2 17 Q3 17 Q4 17 Q1 18 +1.2%+1.1%+0.4%+1.4%+1.2% MSR 15 27.1% +0.8 p.p. y-o-y organic y-o-y organic

Unique assets Mobile FBB Pay TV • M4M strategy is paying off network - Sustainable leadership: 41.4% contract market share - 1.6% contract churn (stable y-o-y); unrivaled value proposition - Strong growth opportunity; LTE penetration 55% 364 cities with 4G+ (+250 in Q1 18) • Fiber as growth engine - 88 cities already covered with FTTH 4.6M already connected - TV: Best value proposition with cutting-edge technology IPTV available in 65 new cities 435 81 29 727 102 49 Contract FTTx / Cable IPTV Q1 17 Q1 18 +67% +23% +72% Net adds ('000) ARPU Q1 18 y-o-y FTTx deployment 24% 25% Take-upP.Passed (m) +1.7% +8.5% +4.4% Q7.4 18.6 Q1 17 Q1 18 +7% Brazil | Growth and value 16

Sustained revenue growth Brazil | Delivering profitable growth • MSR: +3.5% (+3.9% in Q4 17) - Boosted by data growth (+17.1%) and price upgrades - Outgoing postpaid revenue improved to +9.2% (Q4 17: +9.3%) • Fixed: -4.0% (-3.8% in Q4 17) - Affected by voice decrease, fixed to mobile substitution & DTH - Double digit growth in Fiber (+21.7%) and IPTV (+66.8%) Q4 17 Q1 18 3.1% 3.0% Revenues y-o-y organic OIBDA y-o-y organic Digital initiatives drive margins upward • OIBDA and margin growth reduction) • Best Q1 margin since 2009 - Digitalisation and efficiency as main levers to create a unique combination of network, IT and service platforms regulation 3.7% T.5% Margin Q4 17 Q1 18 17 36.3% +1.2 p.p. 35.6% +1.0 p.p.

Commercial recovery & margin expansion (2%) 47% 7% FBB FTTx & Cable Pay TV • Strong improvement in contract net adds • Better performance in Chile and Peru • FTTx/Cable: 1.8M connected (1.2M FTTH/cable connected) • ARGENTINA (Revs. €755m; OIBDA €245m) - Growth in value: (contract +5%; LTE +61%; FTTx: x4) - Solid Revenues and OIBDA growth the 3rd consecutive quarter - Accelerating FTTx net adds (x4 y-o-y) - Better y-o-y OIBDA trend: -4.3% (vs -14.5% in Q4 17) • PERU (Revs. €501m; OIBDA €98m) - Positive contract net adds for the first time in 7 Qs - Continued solid performance in fixed business - Revenues and OIBDA declined affected by commercial intensity, competition and regulation Contract net adds ('000) Fixed accesses y-o-y Financials y-o-y organic (264) (276) (160) 135 159 Q1 17 Q2 17 Q3 17 Q4 17 Q1 18 7.6% 10.8% Revenues OIBDA Margin 23%58% 27% Penetration o/ voice

(2.2%) (7.4%) Revenues OIBDA Financials y-o-y organic Margin +25% +1% FBB FTTx & Cable Pay TV 5%35% 29% Contract net adds Fixed accesses y-o-y Penetration o/ voice acc. Negative regulatory impact in MEX North Hispam | Commercial success overshadowed by regulation Ex-reg. +0.1% +0.9% • Contract net adds accelerated to 197k • FTTx/Cable: 168k connected • COLOMBIA (Revs. €351m; OIBDA €124m) - Highest Pay TV net adds in 7 quarters - Mobile positive net adds for 4 quarters in a row - OpCF growing by 42.2% y-o-y • MEXICO (Revs. €277m; OIBDA €41m) - Sustained commercial momentum in contract: +104k Positive net adds - Revenues and OIBDA grew ex-regulation (+0.7% and +7.6%, respectively) 5x (*000) 163 135 107 92 197 Q1 17 Q2 17 Q3 17 Q4 17 Q1 18 19 26.6% (1.5 p.p.)

Solid financials across business Q4 17 Q1 18 Q4 17 Q1 18 Capacity Services IP trafficSites Tenants • New state-of-the-art cables progressed according to plan - MAREA (US-Europe) in service since the end of March - BRUSA (Brazil-US) to come into service later this year • Revenue increase explained by towers; cable impacted by tougher comps in Q1 17 • Operating efficiency sustained high OIBDA margin • CapEx intensity reflects deployment efforts in MAREA and BRUSA - To be reduced during H2 18 Telxius | New "MAREA" cable now in service Tenants & towers

Revenues y-o-y organic y-o-y Revenues Tenancy ratio +2.0% €180m +1.1% €183m Cable demand OIBDA Margin % y-o-y 46.1% €86m +52% €84m +7.1% +2.6% 1.34x 16,312 21,858 OIBDA +22% 47.6% Sustained commercial momentum

Net debt reduction despite seasonal Q1 effects 43,97544,230 54 43 Dec-17 FCF Pre-retirement commitments Mar-18Hybrid replacement FX & Others Net financial investments 201(226) (550) 2,381 ND/OIBDA R.67x ND/OIBDA R.66x Net interest payment

TaxWorking capital OpCF ex- spectrum FCFDividend to minorities, spectrum & others 550 (939) (698) (21) (173) Shareholder remuneration (incl. hybrid coupons) Net Financial Debt €m Seasonal effect 21 224

Focused on attractive long-term financing dates Liquidity position Mar-18 | ϵ bn Interest payments cost Ma

26 Mr. Ángel Vilá COO Conclusion

Q1 summary | Delivering robust financials Progress on strategy Our mission Let our customers choose it all Q Robuststart to the year R Reiterating 2018 guidance 3 23

For further information: Investor Relations Tel. +34 94 482 87 00 ir@telefonica.com www.telefonica.com/investors

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.

Telefónica, S.A.

Date: April 26, 2018 By:/s/ Laura Abasolo García de Baquedano

Name: Laura Abasolo García de Baquedano Title: Chief finance and Control Officer