

UNITED STATESSECURITIES AND EXCHANGE COMMISSIONWashington, D.C. 20549 FORM 6-KREPORT OF FOREIGN PRIVATEISSUERPURSUANT TO RULE 13a-16OR 15d-16 OF THE SECURITIES EXCHANGE ACTOF 1934 For the month of January, 2025. Commission File Number: 001-38763 MILЛИCOM INTERNATIONAL CELLULAR S.A.(Exact Name of Registrant as Specified in ItsCharter) 148-150, Boulevard de la PÂ©trusseL-2330 LuxembourgGrand Duchy of Luxembourg(Address of principal executive office) Indicate by check mark whether the registrant filesor will file annual reports under cover of Form 20-F or Form 40-F: Form 20-F x Form 40-F Item 1. Press release dated January 20, 2025. Item 1A Millicom (Tigo) share repurchase activity Luxembourg, January 20, 2025 - Pursuant to the share repurchase program announced on November 29, 2024, Millicom repurchased 140,587 of its SwedishDepository Receipts (SDRs) and 95,600 of its common shares between January 13, 2025, and January 17, 2025, as detailed in the table below. Exchange Nasdaq Stockholm Nasdaq Stock Market Trade Date Number of SDRs repurchased Average price paid* (SEK) Repurchase amount* (SEK) Number of shares repurchased Average price paid* (USD) Repurchase amount* (USD) 2025-01-13 89 585 266.9617 23 915 764 47 800 23.9970 1 147 057 2025-01-14 51 002 271.9101 13 867 959 47 800 24.5286 1 172 467 * Excluding commissions Allpurchases were carried out on Nasdaq Stockholm and on the Nasdaq Stock Market by Citigroup Global Markets Limited and Citigroup GlobalMarkets Inc. respectively, on behalf of Millicom. Following the repurchases, Millicom held 2,756,017 treasury shares as of January 17,2025. The total number of shares outstanding in Millicom is 172,096,305. The repurchase program is being executed consistent with theprovisions of Article 5 of MAR and the Commission Delegated Regulation No 2016/1052 (âœSafe Harbour Regulationâ€). Furtherinformation about SDR repurchases is available on Nasdaq Stockholmâ€™s website: <https://www.nasdaq.com/european-market-activity/news/corporate-actions/repurchase-of-own-shares> -END- Forfurther information, please contact: Press:Sofia Corral, Director Corporate Communications press@millicom.com Investors: MichelMorin, VP Investor Relationsinvestors@millicom.com

AboutMillicom Millicom(NASDAQ U.S.: TIGO, Nasdaq Stockholm: TIGO_SDB) is a leading provider of fixed and mobile telecommunications services in Latin America.Through our TIGO® and Tigo Business® brands, we provide a wide range of digital services and products,including TIGO Money for mobile financial services, TIGO Sports for local entertainment, TIGO ONEtv for pay TV, high-speed data, voice, and business-to-business solutions such as cloud and security. As of September 30, 2024, Millicom, including its Honduras Joint Venture,employed approximately 15,000 people, and provided mobile and fiber-cable services through its digital highways to more than 46 millioncustomers, with a fiber-cable footprint of about 14 million homes passed. Founded in 1990, Millicom International Cellular S.A. is headquarteredin Luxembourg. SIGNATURES Pursuant to the requirements of the SecuritiesExchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized. MILЛИCOM INTERNATIONAL CELLULAR S.A. (Registrant) By: /s/ Salvador EscalÃ³n Name: Salvador EscalÃ³n Title: Executive Vice President, Chief Legal and Compliance Officer Date: January 21, 2025