

Â Â UNITED STATESSECURITIES AND EXCHANGE COMMISSIONWASHINGTON, D.C. 20549Â FORM 6-KÂ REPORT OF FOREIGN PRIVATE ISSUERPURSUANT TO RULE 13a-16 OR 15d-16UNDER THE SECURITIES EXCHANGE ACT OF 1934Â For the month of December 2024Â Commission File Number: 001-39461Â NANO-X IMAGING LTDÂ Ofer Tech Park94 Shlomo Shmeltzer RoadPetach TikvaIsrael 4970602 (Address of principal executive office)Â Indicate by check mark whether the registrantfiles or will file annual reports under cover of Form 20-F or Form 40-F.Â Form 20-FÂ â˜Â Â Â Â Â Form40-FÂ â˜Â Â Â Â On December 5, 2024, Nano-X Imaging Ltd. (theâ€œCompanyâ€) announced that it has received 510(k) clearance from the U.S. Food and Drug Administration (FDA) for itsNanox.ARC, a stationary X-ray system intended to produce tomographic images for general use including human musculoskeletal system, pulmonary,intra-abdominal, and paranasal sinus indications, adjunctive to conventional radiography, on adult patients.Â The contents of Exhibit 99.1 to this Form 6-K, excluding statements in quotes included therein,are incorporated by reference into the registration statements on FormÂ F-3 (File No. 333-271688) and on Form S-8 (File No. 333-248322)of the Company, filed with the Securities and Exchange Commission, to be a part thereof from the date on which this report is submitted,to the extent not superseded by documents or reports subsequently filed or furnished.Â 1 Â Â EXHIBIT INDEXÂ Exhibit No. Â Exhibit 99.1 Â Press release, dated December 5, 2024 Â 2 Â Â SIGNATURESÂ Pursuant to the requirementsof the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereuntoformerly authorized.Â Â NANO-X IMAGING LTD. Â Â Â By: /s/ Ran Daniel Â Name:Â Ran Daniel Â Title: Chief Financial Officer Â Date: December 5, 2024Â Â 3Â Â Exhibit 99.1Â Nanox.ARC Imaging System Receives FDA Clearance for General Use,Including Pulmonary IndicationÂ â— Nanox.ARC receives additional FDA clearance to produce tomographic images for general use, including pulmonary, intra-abdominaland paranasal indications, in addition to its previously cleared indication for the musculoskeletal system Â â—Nanox.ARC uses high voltage powered digital X-ray tubes for 3D tomosynthesis imaging that could help expand availability of medicalimagingÂ â—Nanox.ARC now deployed at healthcare facilities across seven states in the U.S.Â PETACH TIKVA, Israel â€” December 5, 2024, NANO-X IMAGING LTD (â€œNanoxâ€or the â€œCompany,â€ Nasdaq: NNOX), an innovative medical imaging technology company, today announced that it has received 510(k)clearance from the U.S. Food and Drug Administration (FDA) for its Nanox.ARC, a stationary X-ray system intended to produce tomographicimages for general use including human musculoskeletal system, pulmonary, intra-abdominal, and paranasal sinus indications, adjunctiveto conventional radiography, on adult patients.Â The Nanox.ARC features a proprietary digital X-ray source, representinga significant advancement in X-ray technology. The Nanox.ARC utilizes advanced tomosynthesis technology with a cold cathode to createa more comprehensive, sliced three-dimensional view of the body, enhancing visualization with multiple layers of images and reducing thesuper-imposition of structures often seen in 2D X-rays.Â â€œWith this FDA clearance, we can now offer U.S. healthcare providerssignificantly broader imaging capabilities that are akin to commonly used traditional X-ray devices,â€ said Erez Meltzer, Nanox ChiefExecutive Officer and Acting Chairman. â€œOur mission is to provide healthcare practices with a transformative imaging advantage withthe Nanox.ARC â€” an accessible, cost-effective solution that not only provides advanced diagnostic imaging capabilities but alsoelevates overall patient care. We look forward to bringing this technology to more healthcare facilities throughout the country.â€Â The Company believes the new FDA-cleared indications will help broadenNanox. ARCâ€™s commercial expansion in the U.S., where it is currently deployed at multiple healthcare facilities across seven states. Worldwide, there are a few dozen units in various stages of shipments and deployments for both commercial and clinical uses.Â â€œThe installation of the Nanox.ARC at our facility marks a significantleap forward in our diagnostic capabilities,â€ said Sherri Donaldson, COO at Diagnostic Radiology Institute of Kansas City, locatedin Mission, Kansas. â€œThis technology allows us to provide our patients with advanced imaging services, potentially reducing waittimes and improving the overall patient experience. Weâ€™re excited to be at the forefront of this technological advancement in medicalimaging.â€Â The Nanox.ARC is intended for use in professional healthcare â€žfacilitiesor â€žradiological â€ženvironments, such as â€žhospitals, clinics, imaging â€žcenters and â€žother medical practicesâ€ž, andis operated by trained radiographers, radiologists and physicians. It is designed to allow easy and efficient integration into currentclinical workflows. The Nanox.ARC has the potential benefits of reducing patient wait times, enabling faster care and more efficient diagnosis,while also potentially reducing the need to visit a separate imaging facility.Â â€œDigital tomosynthesis provides added value in certain clinicalsituations. Musculoskeletal, thoracic and abdominal imaging all have use cases that may be best served by digital tomosynthesis comparedto CT or radiography,â€ said Greg Kicska M.D., Ph.D, Assistant Professor at Harborview Medical Center and Nanox Advisory Board Member.â€œThe Nanox system is also unique in that it doesnâ€™t have as large a footprint as traditional X-ray machines, doesnâ€™t require as much power and utilizes a matrix pattern that blurs out structural noise, making images more clean.â€Â Â About NanoxÂ Nanox (NASDAQ: NNOX) is focused on driving the worldâ€™s transitionto preventive health care by bringing a full solution of affordable medical imaging technologies based on advanced AI and novel digitalsource.Â Â Nanoxâ€™s vision encompasses expanding the reach of Nanox technologyboth within and beyond hospital settings, providing a seamless end-to-end solution from scan to diagnosis, leveraging AI for smarter diagnosticsand maintaining a clinically-driven approach. The Nanox ecosystem includes Nanox.ARC â€” a multi-source digital tomosynthesis systemthat is cost-effective and user-friendly; Nanox.AI â€” an AI-based suite of algorithms that augment the readings of routine CT imagingto highlight early signs often related to chronic diseases; Nanox.CLOUD â€” a cloud-based software platform that manages and storesdata collected by Nanox devices, and provides users with tools for in-depth imaging analysis; Nanox.MARKETPLACE â€” a proprietarydecentralized marketplace through Nanoxâ€™s subsidiary, USARAD Holdings Inc., that provides remote access to radiology and cardiologyexperts, and a comprehensive teleradiology services platform. By improving early detection and treatment, Nanox aims to enhance betterhealth outcomes worldwide. For more information, please visit www.nanox.vision.Â Forward-Looking StatementsÂ This press release may contain forward-looking statements that aresubject to risks and uncertainties. All statements that are not historical facts contained in this press release are forward-looking statements.Such statements include, but are not limited to, any statements relating to the initiation, timing, progress and results of the Companyâ€™s research and development, manufacturing, and commercialization activities with respect to its X-ray source technology and the Nanox.ARC, the ability to realize the expected benefits of its recent acquisitions and the projected business prospects of the Company and the acquiredcompanies. In some cases, you can identify forward-looking statements by terminology such as â€œcan,â€ â€œmight,â€ â€œbelieve,â€ â€œmay,â€ â€œestimate,â€ â€œcontinue,â€ â€œanticipate,â€ â€œintend,â€ â€œshould,â€ â€œplan,â€ â€œshould,â€ â€œcould,â€ â€œexpect,â€ â€œpredict,â€ â€œpotential,â€ or the negative of these terms or other similar expressions. Forward-looking statements are based on information the Company has when thosestatements are made or managementâ€™s

good faith belief as of that time with respect to future events and are subject to risks and uncertainties that could cause actual performance or results to differ materially from those expressed in or suggested by the forward-looking statements. Factors that could cause actual results to differ materially from those currently anticipated include: risks related to (i) Nanoxâ€™s ability to complete development of the Nanox System; (ii) Nanoxâ€™s ability to successfully demonstrate the feasibility of its technology for commercial applications; (iii) Nanoxâ€™s expectations regarding the necessity of, timing of filing for, and receipt and maintenance of, regulatory clearances or approvals regarding its technology, the Nanox.ARC and Nanox.CLOUD from regulatory agencies worldwide and its ongoing compliance with applicable quality standards and regulatory requirements; (iv) Nanoxâ€™s ability to realize the anticipated benefits of the acquisitions, which may be affected by, among other things, competition, brand recognition, the ability of the acquired companies to grow and manage growth profitably and retain their key employees; (v) Nanoxâ€™s ability to enter into and maintain commercially reasonable arrangements with third-party manufacturers and suppliers to manufacture the Nanox.ARC; (vi) the market acceptance of the Nanox System and the proposed pay-per-scan business model; (vii) Nanoxâ€™s expectations regarding collaborations with third-parties and their potential benefits; (viii) Nanoxâ€™s ability to conduct business globally; (ix) changes in global, political, economic, business, competitive, market and regulatory forces; (x) risks related to the current war between Israel and Hamas and any worsening of the situation in Israel; (xi) risks related to business interruptions resulting from the COVID-19 pandemic or similar public health crises, among other things; and (xii) potential litigation associated with our transactions. For a discussion of other risks and uncertainties, and other important factors, any of which could cause Nanoxâ€™s actual results to differ from those contained in the Forward-Looking Statements, see the section titled â€œRisk Factorsâ€ in Nanoxâ€™s Annual Report on Form 20-F for the year ended December 31, 2023, and subsequent filings with the U.S. Securities and Exchange Commission. The reader should not place undue reliance on any forward-looking statements included in this press release. Except as required by law, Nanox undertakes no obligation to update publicly any forward-looking statements after the date of this press release to conform these statements to actual results or to changes in the Companyâ€™s expectations. Contacts: Media Contact: Ben Shannon ICR HealthcareNanoxPR@icrinc.com Investor Contact: Mike Cavanaugh ICR Healthcare mike.cavanaugh@westwicke.com