

Â SECURITIES 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 2024 (Report No. 4)Â Commission file number: 001-37600Â NANO DIMENSION LTD.(Translation of registrantâ€™s name into English)Â 2 Ilan RamonNess Ziona 7403635 Israel(Address of principal executive offices)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-F â˜Form 40-F â˜Â Â Â Â Â CONTENTSÂ On December 23, 2024, NanoDimension Ltd. (the â€œCompanyâ€) issued a press release titled â€œNano Dimension Responds to Desktop Metalâ€™s Lawsuit Regarding Merger Agreementâ€, a copy of which is furnished herewith as Exhibit 99.1 and incorporated by reference herein.Â ThisReport of Foreign Private Issuer on Form 6-K is incorporated by reference into the Companyâ€™s registration statements on FormF-3 (File No. Nos. 333-255960, 333-233905, 333-251155, 333-252848, and 333-278368) and FormS-8 (File No. 333-214520, 333-248419Â and333-269436), filed with the Securities and Exchange Commission, to be a part thereof from the date on which this report issubmitted, to the extent not superseded by documents or reports subsequently filed or furnished.Â Exhibit No. Â 99.1 Â Press release issued by Nano Dimension Ltd. on December 23, 2024, titled â€œNano Dimension Responds to Desktop Metalâ€™s Lawsuit Regarding Merger Agreementâ€ Â 1 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 Dimension Ltd. Â (Registrant) Â Â Â Date: December 23, 2024 By: /s/ Dotan Bar-NatanÂ Â Name: Dotan Bar-Natan Â Title: General Counsel Â 2Â Â Â Â Â Exhibit 99.1Â Â Nano Dimension Responds to Desktop Metalâ€™s Lawsuit Regarding Merger AgreementÂ Waltham, Mass., Dec. 23, 2024 (GLOBE NEWswire) --Nano Dimension Ltd. (Nasdaq: NNDM) (â€œNano Dimensionâ€ or the â€œCompanyâ€), a supplier of AdditiveManufacturing solutions, today shared its response to a December 20, 2024 lawsuit filed by Desktop Metal, Inc. (NYSE: DM) (â€œDesktopMetalâ€) against the Company in the Delaware Court of Chancery alleging Nano Dimension has failed to use its reasonable best effortsto obtain regulatory approval in connection with the merger agreement between the parties dated July 2, 2024 (the â€œMerger Agreementâ€).Â The Company believes the lawsuit is without meritand inconsistent with the terms of the Merger Agreement, particularly with respect to the Companyâ€™s right to work through the reviewprocess that is under way with the Committee on Foreign Investment in the United States ("CFIUS"). The Company believes thelawsuit is nothing more than an effort by Desktop Metal to prevent the Company from exercising its rights under the Merger Agreement andto impose deadlines and obligations that are inconsistent with that agreement. The Company intends to vigorously defend itself and preserveits rights under the Merger Agreement.Â About Nano Dimension Ltd.Â Nano Dimension (Nasdaq: NNDM) offers a variety of Digital Manufacturingtechnologies serving customers across vertical target markets such as aerospace and defense, advanced automotive, high-tech industrial, specialty medical technology, and R&D and academia.Â With its suite of digital manufacturing technologies, Nano Dimensionis enabling its customers with prototyping and high-mix-low-volume production, along with IP security, design-for-manufacturing capabilities, and more sustainable means of fabrication.Â For more information, please visit <https://www.nano-di.com/>Â Â Â

Â Â Â Forward-Looking StatementsÂ This press release contains forward-looking statements within the meaning of the Private Securities LitigationReform Act of 1995. For example, Nano is using forward-looking statements in this press release when it discusses (i) its beliefs regardingthe merits of the lawsuit filed by Desktop Metal, (ii) its beliefs regarding the lawsuit with respect to Nanoâ€™s rights under theMerger Agreement and (iii) its intention to vigorously defend itself against the lawsuit and preserve its rights under the Merger Agreement. Such forward-looking statements include statements regarding Nanoâ€™s future intentions, strategic plan, events or developments thatNano intends, expects, projects, believes or anticipates will or may occur in the future. Such statements are based on managementâ€™sbeliefs and assumptions made based on information currently available to management. When used in this communication, the words â€œoutlook,â€ â€œguidance,â€ â€œexpects,â€ â€œbelieves,â€ â€œanticipates,â€ â€œshould,â€ â€œestimates,â€ â€œmay,â€ â€œwill,â€ â€œintends,â€ â€œprojects,â€ â€œcould,â€ â€œwould,â€ â€œestimate,â€ â€œpotential,â€ â€œcontinue,â€ â€œplan,â€ â€œtarget,â€ or the negative of these words or similar expressionsare intended to identify forward-looking statements, though not all forward-looking statements contain these identifying words. Theseforward-looking statements involve known and unknown risks and uncertainties, which may cause the Companyâ€™s actual results and performanceto be materially different from those expressed or implied in the forward-looking statements. Accordingly, we caution you that any suchforward-looking statements are not guarantees of future performance and are subject to risks, assumptions, estimates and uncertaintiesthat are difficult to predict. Because such statements deal with future events and are based on the current expectations of Nano, theyare subject to various risks and uncertainties. Factors and risks that may cause Nanoâ€™s actual results or performance to be materiallydifferent from those expressed or implied in the forward-looking statements include, but are not limited to, (i) the occurrence of anyevent, change or other circumstance that could give rise to the termination of the proposed transaction; (ii) the satisfaction of theclosing conditions of the proposed transaction; and (iii) other risks related to the completion of the proposed transaction and actionsrelated thereto. Except as otherwise required by law, Nano undertakes no obligation to publicly release any revisions to these forward-lookingstatements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events. References andlinks to websites have been provided as a convenience, and the information contained on such websites is not incorporated by referenceinto this communication. Nano is not responsible for the contents of third-party websites.Â NanoDimension ContactsInvestors: Julien Lederman, VP Corporate Development | ir@nano-di.comMedia: Kal Goldberg / Bryan Locke / Kelsey Markovich |Â NanoDimension@fgsglobal.comÂ Â Â