Filed by Entegris, Inc. Pursuant to Rule 425 Under the Securities Act of 1933 And Deemed Filed Pursuant to Rule 14a-12 Under the Securities Exchange Act of 1934 Subject Company: Mykrolis Corporation Commission File No. 001-16611

This filing relates to the proposed merger of equals transaction pursuant to the terms of that certain Agreement and Plan of Merger, dated as of March 21, 2005 (the "Merger Agreement"), by and among Entegris, Inc., a Minnesota corporation ("Entegris"), Mykrolis Corporation, a Delaware corporation ("Mykrolis"), and Eagle DE, Inc., a Delaware corporation and a wholly-owned subsidiary of Entegris ("Eagle Delaware"). The Merger Agreement is on file with the Securities and Exchange Commission (the "SEC") as an exhibit to the Current Report on Form 8-K filed by each of Entegris and Mykrolis on March 21, 2005, and is incorporated by reference into this filing.

The following is the text of an e-mail sent by Entegris' President and Chief Executive Officer to Entegris' employees.

It's hard to believe that two weeks have passed since we announced the merger-of-equals transaction between Entegris and Mykrolis. One of my goals is to provide continuous communication to you with regard to the status of the merger.

I'm pleased with the progress we're making towards the finalization of the merger. Since the announcement, I've had the opportunity to speak with many Entegris and Mykrolis employees as well as our analysts, investors, customers and significant suppliers/partners about this important and exciting transaction. From all sources, we've received overwhelming support and recognition that bringing these two companies together makes tremendous sense strategically, operationally, technologically and financially. We will be full and equal partners in a bigger, stronger, more stable enterprise and one better able to navigate through the inevitable ups and downs of the semiconductor industry.

While the reasons for the merger are clear and compelling, there has been an understandable level of concern amongst employees because some duplicative jobs will be lost at each company as a result of this merger. We expect 95% of the jobs at Entegris and Mykrolis to be unaffected by the merger. Unfortunately but inevitably, there will be a certain level of anxiety for all employees at both Entegris and Mykrolis until it is determined and communicated to the affected employees as to which positions will be eliminated.

We are in the process of notifying the individuals who may be impacted and notifying them of what they can expect. As we work hard to complete that process as quickly as possible, I want to make you this promise - we will treat fairly and sensitively those people who are impacted; and to the extent possible, we will try to achieve the necessary staff reductions by normal attrition.

As time goes on, you may see teams of people visiting our facilities on a worldwide basis. These teams are comprised of Mykrolis and Entegris personnel and are continuing to be developed for the purpose of planning, evaluating and learning about each other's capabilities around the world. While we have a good start on the whole merger process, there is a lot of work left to do before the merger finalization.

You will continue to be kept informed of additional merger information as it unfolds. In the meantime, it is of utmost importance that we all pay attention to our ongoing daily jobs and that we remain an independent company, just as Mykrolis is, until the close of the merger.

Both Gideon Argov, the CEO of Mykrolis, and I along with our respective staffs and support teams continue to remain excited as we think about the future of the new Entegris moving forward. I look forward to getting through the regulatory and shareholder approval process and completing this important and exciting transaction.

Until then, it's business as usual.

Jim

Additional Information and Where to Find It

In connection with the proposed transaction, Entegris, Mykrolis and Eagle DE, Inc. (a newly formed corporation that will merge with Entegris to effect the reincorporation of Entegris in the State of Delaware in connection with the proposed transaction) will file a joint proxy statement/prospectus with the Securities and Exchange Commission. A registration statement on Form S-4 also will be filed with the SEC. Security holders of each company and other investors are urged to read the registration statement and the joint proxy statement/ prospectus (including any amendments or supplements to the joint proxy statement/prospectus) regarding the proposed transaction when they become available because they will contain important information about Entegris, Mykrolis and the proposed transaction. Stockholders will be able to obtain a free copy of the registration statement and the joint proxy statement/prospectus, as well as other filings containing information about Entegris and Mykrolis, without charge, at the SEC's Internet site (http://www.sec.gov). Copies of the registration statement and the joint proxy statement/prospectus can also be obtained, without charge, by directing a request to Entegris, 3500 Lyman Blvd, Chaska, MN 55318, Attention: Investor Relations Dept., telephone: (952) 556-8080, or at irelations@entegris.com or to Mykrolis, 129 Concord Road, Billerica, MA 01821, Attention: Investor Relations Dept., telephone (978) 436-6500, or at investor_relations@mykrolis.com. In addition, investors and security holders may access copies of the documents filed with the SEC by Mykrolis on Mykrolis' website at <u>www.entegris.com</u>, and investors and security holders may access copies of the documents filed with the SEC by Mykrolis on Mykrolis' website at <u>www.mykrolis.com</u>.

Participants in Solicitation

Entegris, Mykrolis and their respective directors and executive officers and other persons may be deemed to be participants in the solicitation of proxies in respect of the proposed transaction. Information regarding Entegris' directors and executive officers is available in its Form DEF 14A filed with the SEC by Entegris on December 15, 2004 and in its Form 10-K filed with the SEC on November 12, 2004, and information regarding Mykrolis' directors and executive officers is available in its Form DEF 14A filed with the SEC by Mykrolis on March 26, 2004 and in its Form 10-K filed with the SEC on March 11, 2005. Other information regarding the participants in the proxy solicitation and a description of their direct and indirect interests, by security holdings or otherwise, will be contained the joint proxy statement/prospectus and other relevant materials to be filed with the SEC when they become available.

Forward-Looking Statements

Certain statements in this filing regarding Entegris, Inc., Mykrolis Corporation, the proposed transaction and the combined company after completion of the proposed transaction constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "expect", "feel", "believe", "may", "anticipate", "plan", "estimate", "intend", "should" and similar expressions are intended to identify forward-looking statements. These statements include, but are not limited to, financial projections and estimates and their underlying assumptions; statements regarding

plans, objectives and expectations with respect to future operations, products and services; and statements regarding future performance. Such forward-looking statements involve known and unknown risks, uncertainties and other important factors that could cause the actual results, performance or achievements of Entegris, Mykrolis, and their respective subsidiaries or industry results, to differ materially from any future results, performance or achievements expressed or implied by such forward-looking statements. Such risks, uncertainties and other factors include, among others: the risks and factors described in the publicly filed documents of Entegris and Mykrolis, including their most recently filed Forms 10-K; general economic and business conditions and industry trends in the countries in which we operate; currency exchange risks; the continued strength of the industries in which we operate; uncertainties inherent in proposed business strategies and development plans; rapid technological changes; future financial performance, including availability, terms and deployment of capital; availability of qualified personnel; changes in, or the failure or the inability to comply with, government regulation in the countries in which we operate, and adverse outcomes from regulatory proceedings; changes in the nature of key strategic relationships with partners and joint venturers; competitor responses to the products and services of Entegris and Mykrolis, and the overall market acceptance of such products and services, including acceptance of the pricing of such products and services; the ability to achieve the cost savings and synergies contemplated by the proposed merger; the ability to promptly and effectively integrate the businesses of Entegris and Mykrolis; and the diversion of management time on merger-related issues. These forward-looking statements speak only as of the date of this filing. Entegris and Mykrolis expressly disclaim any obligation or undertaking to disseminate any updates or revisions to any forward-looking statement contained herein to reflect any change in the respective expectations of Entegris and Mykrolis with regard thereto or any change in events, conditions or circumstances on which any such statement is based. The transaction is subject to customary closing conditions, including regulatory, stockholder and other thirdparty consents and approvals.