

Statement of Commissioner Pamela Jones Harbour
Genzyme Corporations's Acquisition of Novazyme Pharmaceuticals Inc.
File No. 021-0026

When I joined the Commission, it was already in the final stages of considering the complex issues raised by the acquisition of Novazyme Pharmaceuticals, Inc. by Genzyme Corporation. Given these circumstances, I chose not to participate in the vote regarding whether to close the investigation of this merger. As the statements issued by Chairman Muris and Commissioner Thompson attest, the decision to close was not an effortless one. Although I did not vote, I would like to take this opportunity to express some of my views on the relationship between competition and innovation, an important antitrust policy issue raised by this case.

Innovation, in the sense of “research and development directed to particular new or improved goods or processes,”¹ is critically important to the increased productivity and competitiveness of domestic firms and economic growth. Competition drives innovation, a crucial element in increasingly global markets. Firms in a competitive market generally have greater incentives to innovate than a monopolist facing no realistic threat of immediate entry.² Diversity of research and development efforts is also an important element of innovation, as firm rivalry plays a direct role in stimulating product development and improvements.³ Moreover, in the innovation context, diversity is perhaps uniquely valuable in the same way that federalism

¹ See U.S. Dep’t of Justice and Fed. Trade Comm’n, *Antitrust Guidelines for the Licensing of Intellectual Property*, § 3.2.3 (Apr. 9, 1995), reprinted in 4 Trade Reg. Rep. (CCH) ¶ 13,406 [hereinafter *IP Guidelines*].

² See Kenneth J. Arrow, *Economic Welfare & the Allocation of Resources for Invention*, in THE RATE AND DIRECTION OF INVENTIVE ACTIVITY 609, 619 (1962). Cf. Fed. Trade Comm’n Staff Report, *Anticipating the 21st Century: Competition Policy in the New High-Tech, Global Marketplace*, Volume I, Ch. 7, 2 (May 1996) [hereinafter *Anticipating the 21st Century*] (noting that “Congress, the courts, and the antitrust agencies have consistently applied antitrust law to maintain a ‘competitive level’ of innovation.”).

³ See, e.g., Kenneth J. Arrow, U.S. Dep’t of Justice and Fed. Trade Comm’n, *Hearings on Competition and Intellectual Property in the Knowledge-Based Economy* [hereinafter *Hearings on Competition and I.P.*], Feb. 25, 2002, at 58-59 (transcript of oral remarks); Daniel L. Rubinfeld, *id.* at 19 (“...if you have fewer innovators [and] less diversity, you are likely to have less innovation or higher prices or lower quality products”).

values the so-called laboratories of the States⁴ – that is to say, different perspectives and approaches proceeding in parallel often yield greater benefits and insights than those dictated by unitary pursuits.⁵

Innovation competition is especially important in markets, such as pharmaceuticals, where frequent reliance on patents to protect the fruits of research and development is the norm;⁶ where the increased profits that flow to the first firm to patent and market a new drug or treatment promote races to innovate; where entry barriers – most notably the costly and prolonged requirements of the regulatory approval process – are exceptionally high; and where the products of innovation can often be monopolized for significant periods of time.⁷ The preservation of innovation competition in such circumstances is especially important to consumers and is, therefore, an important goal for antitrust enforcement.

⁴ See *United States v. Lopez*, 514 U.S. 549, 581 (1995) (Kennedy, J., concurring) (“...the theory and utility of our federalism are revealed, for the States may perform their role as laboratories for experimentation to devise various solutions where the best solution is far from clear.”); *New State Ice Co. v. Liebmann*, 285 U.S. 262, 311 (1932) (Brandeis, J., dissenting) (“It is one of the happy incidents of the federal system that a single courageous State may, if its citizens choose, serve as a laboratory; and try novel social and economic experiments without risk to the rest of the country”).

⁵ Diversity of research will also benefit consumers on those occasions it leads to effective competition in the product market following innovation.

⁶ See Wendy H. Schacht & John R. Thomas, *Patent Law and Its Application to the Pharmaceutical Industry: An Examination of the Drug Price Competition and Patent Term Restoration Act of 1984 (“The Hatch-Waxman Act”)*, CRS Report for Congress (Dec. 18, 2000), at 5 (“Patents are perceived as critical in the drug and chemical industries.”); Richard C. Levin et al., *Appropriating the Returns from Industrial R&D*, BROOKINGS PAPERS ON ECONOMIC ACTIVITY 783, 795-96 (1987) (finding, in a survey of publicly traded firms in 130 lines of business, that drugs were one of only five industries where product patents were regarded as “highly effective”).

⁷ This latter concern is especially acute where the law, such as in the case of products subject to the Orphan Drug Act, Pub. L. No. 97-414, 96 Stat. 2049 (1983) (codified as amended at 21 U.S.C. § § 360aa-360ee (1988)), provides the winner of the race to innovate with an even greater protection from competition than it typically provides patent holders.

⁸ See *Anticipating the 21st Century*, *supra* note 2, Ch. 6, at 12 (noting that participants in the hearings on which the report is based “were in agreement only on the general proposition that economic empiricism and analysis have not conclusively demonstrated - *one way or the other* - whether there is a causal link between increased concentration and decreased innovation”) (emphasis in the original). *But see Anticipating the 21st Century*, *supra* note 2, Ch. 6, at 12 -13 (“Business participants who addressed this issue were emphatic that competition is a primary incentive for innovation, and that continuous innovation is critical for success in increasingly global markets.”); Section of Antitrust Law, American Bar Association, *The Economics of Innovation: A Survey* 22-28 (2002) (surveying various economic models indicating that competition can encourage innovation in specific circumstances).

⁹ See William J. Baumol & Janusz A. Ordover, *Antitrust: Source of Dynamic and Static Inefficiencies?*, in ANTITRUST, INNOVATION, AND COMPETITIVENESS 85 (Thomas M. Jorde

all of the research and development tracks of its immediate rivals, and is unencumbered by the

the patent race will get us the product sooner, and may get us the product with higher probability.”); Kenneth W. Dam, *The Economic Underpinnings of Patent Law*, 23 J. LEG. STUD. 247, 252 (1994) (“[I]nvestment in research and development is itself a major form of competition and leads directly to consumer benefits in the form of new products and lower prices.”).

¹¹ Cf. U.S. Dep’t of Justice and Fed. Trade Comm’n, *Horizontal Merger Guidelines*, § 4.0 (Apr. 2, 1992; as revised, Apr. 8, 1997), 4 Trade Reg. Rep. (CCH) ¶ 13,104 (“The Agency will only consider those efficiencies likely to be accomplished with the proposed merger and unlikely to be accomplished in the absence of either the proposed merger or another means having comparable anticompetitive effects. These are termed *merger-specific efficiencies*.”) (emphasis in original).

¹² *Id.* (“When the potential adverse competitive effect of a merger is likely to be particularly large, extraordinarily great cognizable efficiencies would be necessary to prevent the merger from being anticompetitive.”)

¹³ Prior to the acquisition, Novazyme projected reaching clinical trials at “the end of 2001.” Interview of John Crowley, CEO, Novazyme, by International Pompe Association (May 21, 2001), available at <http://www.worldpompe.org/internov.html>. After the acquisition was consummated, Genzyme initially projected a Novazyme product launch of 2005 and then revised the projection to sometime between 2009 and 2011. Genzyme Corporation, *Form 10-K for the Fiscal Year Ended December 31, 2001*, U.S. Securities and Exchange Commission File No.