

1 UNITED STATES COURT OF APPEALS

2 FOR THE SECOND CIRCUIT

3 August Term, 2003

4 (Argued: July 12, 2004 Decided: November 2, 2005)

5 Docket No. 03-7641

6 -----
7 In Re: Tamoxifen Citrate Antitrust Litigation

8 JOBLOVE, ALLIED SERVS., DIV WELFARE FUND, BENNISH, KOONAN, GREAT
9 LAKES HEALTH PLAN INC., LACAVA, DONEGA, SMITH, LOVINGER,
10 WOOLLACOTT, WHITESIDE, PLATT, UNDERWOOD, TEAMSTERS LOCAL 237,
11 LYNCH, CALLAWAY, MALONEY, MECHANICAL CONTRACT, IBEW-NECA LOCAL
12 505 HEALTH & WELFARE PLAN, A.F. OF L.-A.G.C. BUILDING TRADES
13 WELFARE FUND, SHEET METAL WORKERS LOCAL 441 HEALTH & WELFARE
14 PLAN, LOCAL 1199 NAT'L BENEFIT FUND FOR HEALTH & HUMAN SERVICES,
15 NEW YORK STATEWIDE SENIOR ACTION COUNCIL, MARKS, BLONSTEIN,

16 Plaintiffs-Appellants,

17 - v -

18 BARR LABS. INC., ASTRAZENECA PHARMACEUTICALS LP, ZENECA INC.,
19 ASTRAZENECA PLC,

20 Defendants-Appellees.

21 -----
22 Before: POOLER, SACK, and RAGGI, Circuit Judges. Pooler,
23 Circuit Judge, dissents in a separate opinion.

24 Appeal by consumers of the drug tamoxifen citrate,
25 third-party payor organizations that provide medical benefits for
26 their members which are used to purchase the drug, and consumer
27 advocacy groups from a judgment of the United States District
28 Court for the Eastern District of New York (I. Leo Glasser,
29 Judge) dismissing their complaint pursuant to Federal Rule of
30 Civil Procedure 12(b)(6). The plaintiffs allege that the
31 defendants Zeneca, Inc., and AstraZeneca Pharmaceuticals LP

1 entered into an agreement with the defendant Barr Laboratories,
2 Inc., settling litigation among them the terms of which violated
3 federal and state antitrust laws. On appeal, the plaintiffs
4 assert that the district court erred in dismissing the complaint
5 based on its conclusion that the settlement agreement was not a
6 violation of antitrust law and that the plaintiffs did not suffer
7 antitrust injury as a result of the alleged violation.

8 Affirmed.

9 J. DOUGLAS RICHARDS, Milberg Weiss
10 Bershad Hynes & Lerach LLP (Michael M.
11 Buchman, Milberg Weiss Bershad &
12 Schulman LLP, New York, NY; Patrick E.
13 Cafferty, Miller Faucher and Cafferty
14 LLP, Ann Arbor, MI; Bernard Persky,
15 Barbara J. Hart, Hollis L. Salzman,
16 Goodkind Labaton Rudoff & Sucharow LLP,
17 New York, NY; Robert S. Schachter,
18 Joseph Lipofsky, Joseph S. Tusa,
19 Zwerling, Schachter & Zwerling, LLP, New
20 York, NY; Robert G. Eisler, Lieff,
21 Cabraser, Heimann & Bernstein, LLP, New
22 York, NY; of counsel), New York, NY, for
23 Plaintiffs-Appellants.

24 JOEL M. COHEN, Davis Polk & Wardwell
25 (Diem-Suong T. Nguyen, Douglas K.
26 Yatter, Wendy L. Silver, Davis Polk &
27 Wardwell, New York, NY; George C.
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31 Defendants-Appellees.

32 Bruce E. Gerstein, Garwin Bronzaft
33 Gerstein & Fisher LLP (Barry S. Taus,
34 Jan Bartelli, Garwin Bronzaft Gerstein &
35 Fisher LLP; Steve D. Shadowen, Monica L.
36 Rebuck, Hanglely Aronchick Segal &
37 Pudlin, Harrisburg, PA; of counsel), New
38 York, NY, for Amicus Curiae Louisiana
39 Wholesale Drug Company, Inc., CVS
40 Meridian Inc., and Rite Aid Corporation.

1 SACK, Circuit Judge:

2 This appeal, arising out of circumstances surrounding a
3 lawsuit in which a drug manufacturer alleged that its patent for
4 the drug tamoxifen citrate ("tamoxifen") was about to be
5 infringed, and the suit's subsequent settlement, requires us to
6 address issues at the intersection of intellectual property law
7 and antitrust law. Although the particular factual circumstances
8 of this case are unlikely to recur, the issues presented have
9 been much litigated and appear to retain their vitality.

10 The plaintiffs appeal from a judgment of the United
11 States District Court for the Eastern District of New York (I.
12 Leo Glasser, Judge) dismissing their complaint pursuant to
13 Federal Rule of Civil Procedure 12(b)(6). The plaintiffs claim
14 that the defendants conspired, under an agreement settling a
15 patent infringement lawsuit among the defendants in 1993 while an
16 appeal in that lawsuit was pending, to monopolize the market for
17 tamoxifen -- the most widely prescribed drug for the treatment of
18 breast cancer -- by suppressing competition from generic versions
19 of the drug. The settlement agreement included, among other
20 things, a so-called "reverse payment" of \$21 million from the
21 defendant patent-holders Zeneca, Inc., AstraZeneca
22 Pharmaceuticals LP, and AstraZeneca PLC (collectively "Zeneca")
23 to the defendant generic manufacturer Barr Laboratories, Inc.
24 ("Barr"), and a license from Zeneca to Barr allowing Barr to sell
25 an unbranded version of Zeneca-manufactured tamoxifen. The
26 settlement agreement was contingent on obtaining a vacatur of the

1 judgment of the district court that had heard the infringement
2 action holding the patent to be invalid.

3 The district court in the instant case concluded that
4 the settlement did not restrain trade in violation of the
5 antitrust laws, and that the plaintiffs suffered no antitrust
6 injury from that settlement. Because we conclude that we have
7 jurisdiction to hear the appeal and that the behavior of the
8 defendants alleged in the complaint would not violate antitrust
9 law, we affirm the judgment of the district court.

10 **REGULATORY BACKGROUND**

11 Before setting forth the salient facts of this case and
12 addressing the merits of the plaintiffs' appeal, it may be
13 helpful to outline the relevant regulatory background.¹

14 The Federal Food, Drug, and Cosmetic Act, ch. 675, 52
15 Stat. 1040 (1938) (codified at scattered sections of title 21 of
16 the United States Code), prohibits the introduction or delivery
17 for introduction into interstate commerce of "any new drug,
18 unless an approval of an application filed pursuant to subsection
19 (b) or (j) of [21 U.S.C. § 355] is effective with respect to such
20 drug." 21 U.S.C. § 355(a). Subsection (b) describes the process
21 of filing a New Drug Application ("NDA") with the United States

¹ A similar description of the relevant statutes and regulations is set forth in the Eleventh Circuit's opinion in Valley Drug Co. v. Geneva Pharms., Inc., 344 F.3d 1294, 1296-98 (11th Cir. 2003), cert. denied, 125 S. Ct. 308 (2004), and the District of Columbia Circuit's opinion in Andrx Pharms., Inc. v. Biovail Corp. Int'l, 256 F.3d 799, 801-02 (D.C. Cir. 2001), cert. denied, 535 U.S. 931 (2002).

1 Food and Drug Administration ("FDA"), which is typically a costly
2 and time-consuming procedure in which the applicant attempts to
3 establish the safety and effectiveness of the drug. Id.
4 § 355(b). In 1984, in order to accelerate the approval process
5 for low-cost generic versions of established drugs, Congress
6 enacted the Drug Price Competition and Patent Term Restoration
7 Act of 1984 (the "Hatch-Waxman Act"), Pub. L. No. 98-417, 98
8 Stat. 1585 (codified at scattered sections of titles 21 and 35 of
9 the United States Code). Among other things, the Act added
10 subsection (j) to section 355. Hatch-Waxman Act § 101.
11 Subsection (j) provides for an Abbreviated New Drug Application
12 ("ANDA") to the FDA for the bioequivalent form of a drug already
13 approved for safety and effectiveness. 21 U.S.C. § 355(j)(1),
14 (j)(2)(A), (j)(7)(A). Subsection (j)(7)(A) further provides that
15 the Secretary of the FDA will create and maintain a list of such
16 approved drugs. Id. § 355(j)(7)(A). This list, Approved Drug
17 Products with Therapeutic Equivalence Evaluations, is commonly
18 known as the "Orange Book."² See id.;
19 <http://www.fda.gov/cder/orange/default.htm>.

² The ANDA process was intended to be available to manufacturers of generic versions of approved drugs. "A generic version . . . contains the same active ingredients, but not necessarily the same inactive ingredients, as the pioneer drug. A generic drug, as the name implies, is ordinarily sold without a brand name and at a lower price." Andrx Pharms., 256 F.3d at 801 n.1. Filing an ANDA allows a generic drug manufacturer to avoid the costly and time-consuming process of demonstrating safety and efficacy, allowing the manufacturer to rely on the FDA's earlier findings concerning the brand-name drug's NDA, and thereby facilitates quicker market entry by generic manufacturers. See id. at 801.

1 An ANDA filer must certify, with respect to each patent
2 that claims the listed drug for the bioequivalent of which the
3 ANDA filer is seeking approval,³ either that no patent was filed
4 for the listed drug (a "paragraph I" certification), that the
5 patent has expired (a "paragraph II" certification), that the
6 patent will expire on a specified date and the ANDA filer will
7 not market the drug until that date (a "paragraph III"
8 certification), or that the patent is invalid or would not be
9 infringed by the manufacture, use, or sale of the new drug (a
10 "paragraph IV" certification). 21 U.S.C. § 355(j)(2)(A)(vii).

11 An ANDA filer that elects a paragraph IV certification
12 must notify each affected patent owner of the certification. Id.
13 § 355(j)(2)(B)(i). The patent owner then has forty-five days
14 after the date it receives such notice to bring suit against the
15 ANDA filer for patent infringement. Id. § 355(j)(5)(B)(iii). If
16 no patent owner brings such a lawsuit during this period, the FDA
17 may immediately approve the ANDA. Id. If, however, the patent
18 owner brings suit during this period, the FDA's final approval of
19 the ANDA is stayed for thirty months after the date the patent

3

The applicant shall file with the application the patent number and the expiration date of any patent which claims the drug for which the applicant submitted the application or which claims a method of using such drug and with respect to which a claim of patent infringement could reasonably be asserted if a person not licensed by the owner engaged in the manufacture, use, or sale of the drug.

21 U.S.C. § 355(b)(1).

1 owner received the requisite notice or until a district court⁴
2 returns a decision as to the validity of the patent or its
3 infringement if it does so before the thirty-month period
4 expires. Id.

5 Any approval letter sent by the FDA before the
6 expiration of the prescribed stay and before a court ruling of
7 patent invalidity or non-infringement is tentative. See 21
8 C.F.R. § 314.105(d). If before the thirty months expire a court
9 rules that the patent is either invalid or not infringed, the
10 tentative approval of the ANDA is made effective as of the date
11 of judgment. 21 U.S.C. § 355(j)(5)(B)(iii)(I). If after thirty
12 months there has been no ruling on patent validity or
13 infringement and the stay expires, the ANDA filer can distribute
14 and market the drug but, depending on the court's later patent
15 ruling, an ANDA filer that chooses to follow this course may
16 thereafter become liable for infringement damages if infringement
17 is found. See In re Ciprofloxacin Hydrochloride Antitrust
18 Litig., 166 F. Supp. 2d 740, 744 (E.D.N.Y. 2001) ("Cipro I").

⁴ At the time of the settlement in this case, the statute did not specify that a district court decision would end the 30-month stay, and the FDA interpreted the statute to require a court decision "from which no appeal can be or has been taken." Ctr. for Drug Evaluation & Research (CDER), Food & Drug Admin., U.S. Dep't of Health & Human Servs., Guidance for Industry: Court Decisions, ANDA Approvals, and 180-Day Exclusivity Under the Hatch-Waxman Amendments to the Federal Food, Drug, and Cosmetic Act 2 (Mar. 2000) (quoting 21 C.F.R. § 314.107(e)(1) (1999)) (hereinafter CDER, Court Decisions), available at <http://www.fda.gov/cder/guidance/3659fnl.pdf> (last visited May 12, 2005). In 2000, the FDA changed its interpretation to include any district court decision. See id. at 3-5.

1 As an incentive for generic manufacturers to choose the
2 paragraph IV certification route and, in the course of pursuing
3 such applications, to challenge weak patents, the Hatch-Waxman
4 Act offers the first ANDA filer with a paragraph IV
5 certification, under certain conditions, the opportunity to
6 market its generic drug exclusively for 180 days. To this end,
7 the FDA may not approve the ANDA of a subsequent filer until 180
8 days after the earlier of the date (1) the first ANDA filer
9 commercially markets the generic drug or (2) a court of competent
10 jurisdiction concludes that the patent in question is invalid or
11 not infringed.⁵ 21 U.S.C. § 355(j)(5)(B)(iv)(I)-(II).

12 Until 1998 (and, therefore, at the time of the
13 settlement that is the subject of this appeal), the 180-day
14 exclusivity period was available to the first ANDA filer to elect
15 a paragraph IV certification, but only if the ANDA filer
16 successfully defended against a lawsuit for infringement of the
17 relevant patent. See 21 C.F.R. § 314.107(c)(1) (1995). This so-
18 called "successful defense" requirement was challenged in 1997 in
19 two separate lawsuits. In each, the circuit court rejected the

⁵ Like its interpretation of the type of court decision sufficient to end the 30-month stay of final FDA approval described above, at the time of the settlement in this case and until 2000, the FDA interpreted a court decision required to trigger the 180-day period to mean only a court decision "from which no appeal can be or has been taken." See CDER, Court Decisions, supra, at 2 (quoting 21 C.F.R. § 314.107(e)(1) (1999)). That interpretation was subsequently changed in 2000, when the FDA concluded that a patent invalidity decision by a district court would be sufficient to trigger the commencement of the 180-day period. See id. at 3-5.

1 requirement as inconsistent with the Hatch-Waxman Act. See Mova
2 Pharm. Corp. v. Shalala, 140 F.3d 1060, 1076 (D.C. Cir. 1998);
3 Granutec, Inc. v. Shalala, Nos. 97-1873, 97-1874, 1998 WL 153410,
4 at *7, 1998 U.S. App. LEXIS 6685, at *19-*21 (4th Cir. Apr. 3,
5 1998) (unpublished opinion).

6 In June 1998, in response to these decisions, the FDA
7 published a "Guidance for Industry." See Ctr. for Drug
8 Evaluation & Research, Food & Drug Admin., U.S. Dep't of Health
9 and Human Servs., Guidance for Industry: 180-Day Generic Drug
10 Exclusivity Under the Hatch-Waxman Amendments to the Federal
11 Food, Drug, and Cosmetic Act (June 1998), available at
12 <http://www.fda.gov/cder/guidance/2576fnl.pdf> (last visited May
13 12, 2005). In the "Guidance," the FDA expressed its intention to
14 remove the "successful defense" requirement formally through
15 rulemaking and made clear that thereafter even ANDA paragraph IV
16 filers that are not the subject of lawsuits will be eligible for
17 the 180-day exclusivity period. Id. at 4-5. "Until such time as
18 the rulemaking process [was] complete, FDA . . . regulate[d]
19 directly from the statute, and . . . ma[de] decisions on 180-day
20 generic drug exclusivity on a case-by-case basis." Id. at 4.
21 Later that year, the FDA formally revoked the "successful
22 defense" requirement. See Effective Date of Approval of an
23 Abbreviated New Drug Application, 63 Fed. Reg. 59,710, 59,710
24 (Nov. 5, 1998), 21 C.F.R. § 314.107 (1999).

1 **FACTUAL AND PROCEDURAL BACKGROUND**

2 Tamoxifen, the patent for which was obtained by
3 Imperial Chemical Industries, PLC, ("ICI") on August 20, 1985, is
4 sold by Zeneca (a former subsidiary of ICI which succeeded to the
5 ownership rights of the tamoxifen patent) under the trade name
6 Nolvadex®.⁶ Tamoxifen is the most widely prescribed drug for the
7 treatment of breast cancer. Indeed, it is the most prescribed
8 cancer drug in the world. In December 1985, four months after
9 ICI was awarded the patent, Barr filed an ANDA with the FDA
10 requesting the agency's approval for Barr to market a generic
11 version of tamoxifen that it had developed. Barr amended its
12 ANDA in September 1987 to include a paragraph IV certification.

13 In response, on November 2, 1987 -- within the required
14 forty-five days of Barr's amendment of its ANDA to include a
15 paragraph IV certification -- ICI filed a patent infringement
16 lawsuit against Barr and Barr's raw material supplier, Heumann
17 Pharma GmbH & Co. ("Heumann"), in the United States District
18 Court for the Southern District of New York.⁷ See Imperial Chem.
19 Indus., PLC v. Barr Labs., Inc., 126 F.R.D. 467, 469 (S.D.N.Y.
20 1989). On April 20, 1992, the district court (Vincent L.
21 Broderick, Judge) declared ICI's tamoxifen patent invalid based
22 on the court's conclusion that ICI had deliberately withheld

⁶ In 2001, Zeneca's domestic sales of tamoxifen amounted to \$442 million.

⁷ Soon thereafter, Heumann was dismissed as a defendant after it agreed to be bound by a determination in that case as to the validity of the tamoxifen patent. Compl. ¶ 40.

1 "crucial information" from the Patent and Trademark Office
2 regarding tests that it had conducted on laboratory animals with
3 respect to the safety and effectiveness of the drug. See
4 Imperial Chem. Indus., PLC v. Barr Labs., Inc., 795 F. Supp. 619,
5 626-27 (S.D.N.Y. 1992) ("Tamoxifen I"). Those tests had revealed
6 hormonal effects "opposite to those sought in humans," which, the
7 court found, could have "unpredictable and at times disastrous
8 consequences." Id. at 622.

9 ICI appealed the district court's judgment to the
10 United States Court of Appeals for the Federal Circuit. In 1993,
11 while the appeal was pending, the parties entered into a
12 confidential settlement agreement (the "Settlement Agreement")
13 which is the principal subject of this appeal. In the Settlement
14 Agreement, Zeneca (which had succeeded to the ownership rights of
15 the patent) and Barr agreed that in return for \$21 million and a
16 non-exclusive license to sell Zeneca-manufactured tamoxifen in
17 the United States under Barr's label, rather than Zeneca's
18 trademark Nolvadex®, Barr would change its ANDA paragraph IV
19 certification to a paragraph III certification, thereby agreeing
20 that it would not market its own generic version of tamoxifen
21 until Zeneca's patent expired in 2002. See In re Tamoxifen
22 Citrate Antitrust Litig., 277 F. Supp. 2d 121, 125-26 (E.D.N.Y.
23 2003) ("Tamoxifen II"). Zeneca also agreed to pay Heumann \$9.5
24 million immediately, and an additional \$35.9 million over the
25 following ten years. The parties further agreed that if the
26 tamoxifen patent were to be subsequently declared invalid or

1 unenforceable in a final and (in contrast to the district court
2 judgment in Tamoxifen I) unappealable judgment by a court of
3 competent jurisdiction, Barr would be allowed to revert to a
4 paragraph IV ANDA certification. Thus if, in another lawsuit, a
5 generic marketer prevailed as Barr had prevailed in Tamoxifen I,
6 and that judgment was either not appealed or was affirmed on
7 appeal, Barr would have been allowed to place itself in the same
8 position (but for the 180-day head start, if it was available)
9 that it would have been in had it prevailed on appeal in
10 Tamoxifen I, rather than settling while its appeal was pending in
11 the Federal Circuit.

12 The plaintiffs allege that as a part of the Settlement
13 Agreement, Barr "understood" that if another generic manufacturer
14 attempted to market a version of tamoxifen, Barr would seek to
15 prevent the manufacturer from doing so by attempting to invoke
16 the 180-day exclusivity right possessed by the first "paragraph
17 IV" filer. Compl. ¶ 58. According to the plaintiffs, this
18 understanding among the defendants effectively forestalled the
19 introduction of any generic version of tamoxifen, because, five
20 years later -- only a few weeks before other generic
21 manufacturers were to be able to begin marketing their own
22 versions of tamoxifen -- Barr did in fact successfully claim
23 entitlement to the exclusivity period. It thereby prevented
24 those manufacturers from entering the tamoxifen market until 180
25 days after Barr triggered the period by commercially marketing
26 its own generic version of the drug. In fact, Barr had not yet

1 begun marketing its own generic version and had little incentive
2 to do so because, pursuant to the Settlement Agreement, it was
3 already able to market Zeneca's version of tamoxifen.

4 Meanwhile, pursuant to the Settlement Agreement which
5 was contingent on the vacatur of the district court judgment in
6 Tamoxifen I, Barr and Zeneca filed a "Joint Motion to Dismiss the
7 Appeal as Moot and to Vacate the Judgment Below." See Tamoxifen
8 II, 277 F. Supp. 2d at 125. The Federal Circuit granted the
9 motion, thereby vacating the district court's judgment that the
10 patent was invalid. See Imperial Chem. Indus., PLC v. Heumann
11 Pharma GmbH & Co., No. 92-1403, 1993 WL 118931, at *1, U.S. App.
12 LEXIS 14872, at *1-*2 (Fed. Cir. Mar. 19, 1993) (unpublished
13 opinion). Such a vacatur, while generally considered valid as a
14 matter of appellate procedure by courts at the time of the
15 Settlement Agreement, see U.S. Philips Corp. v. Windmere Corp.,
16 971 F.2d 728, 731 (Fed. Cir. 1992), was shortly thereafter held
17 to be invalid in nearly all circumstances by the Supreme Court,
18 see U.S. Bancorp Mortgage Co. v. Bonner Mall P'ship, 513 U.S. 18,
19 27-29 (1994).⁸

20 In the years after the parties entered into the
21 Settlement Agreement and the Federal Circuit vacated the district
22 court's judgment,⁹ three other generic manufacturers filed ANDAs

⁸ The rule in U.S. Bancorp does not apply retroactively.
See U.S. Philips Corp. v. Sears Roebuck & Co., 55 F.3d 592, 598
(Fed. Cir.), cert. denied, 516 U.S. 1010 (1995).

⁹ After the Settlement Agreement was entered into and the
vacatur ordered, Barr began to market its licensed version of
Zeneca's tamoxifen, selling its product to distributors and

1 with paragraph IV certifications to secure approval of their
2 respective generic versions of tamoxifen: Novopharm Ltd., in June
3 1994, Mylan Pharmaceuticals, Inc., in January 1996, and
4 Pharmachemie, B.V., in February 1996.¹⁰ See Tamoxifen II, 277 F.
5 Supp. 2d at 126-27. Zeneca responded to each of these
6 certifications in the same manner that it had responded to
7 Barr's: by filing a patent infringement lawsuit within the forty-
8 five day time limit provided by 21 U.S.C. § 355(j)(5)(B)(iii).
9 See id. In each case, the court rejected the generic
10 manufacturer's attempt to rely on the vacated Tamoxifen I
11 decision, and -- contrary to the Tamoxifen I judgment -- upheld
12 the validity of Zeneca's tamoxifen patent. See Zeneca Ltd. v.
13 Novopharm Ltd., No. 96-1364, 1997 WL 168318, at *2-*4, 1997 U.S.
14 App. LEXIS 6634, at *4-*11 (Fed. Cir. Apr. 10, 1997) (unpublished
15 opinion) (affirming the judgment of the United States District
16 Court for the District of Maryland declining to give Tamoxifen I
17 collateral estoppel effect or to apply U.S. Bancorp retroactively
18 and deciding that Zeneca's patent was valid); Zeneca Ltd. v.
19 Pharmachemie B.V., No. 96-12413, 2000 WL 34335805, at *15, 2000
20 U.S. Dist LEXIS 22631, at *51-*53 (D. Mass. Sept. 11, 2000)
21 (concluding that Zeneca had not engaged in inequitable conduct

wholesalers at a 15 percent discount to the brand-name price,
which translated into a price to consumers about five percent
below Zeneca's otherwise identical Nolvadex® brand-name version.
Barr soon captured about 80 percent of the tamoxifen market.

¹⁰ Pharmachemie initially filed a paragraph III
certification in August 1994, but later amended it to include a
paragraph IV certification. See Tamoxifen II, 277 F. Supp. 2d at
126.

1 and that the patent was valid); AstraZeneca UK Ltd. v. Mylan
2 Pharms., Inc., No. 00-2239, slip op. at 2-3 (W.D. Pa. Nov. 30,
3 2000) (entering stipulated consent order that FDA approval for
4 Mylan would not be effective before the expiration of the
5 tamoxifen patent).

6 While Mylan and Pharmachemie's lawsuits were pending in
7 district court, the FDA's "successful defense" rule, requiring
8 that a generic manufacturer seeking to market an allegedly
9 patented drug "successfully defend" its patent infringement
10 lawsuit in order to receive the 180-day exclusivity period --
11 which at the time the Settlement Agreement was entered into would
12 have excluded Barr from benefitting from the exclusivity period
13 -- was, as noted, held invalid. See Mova Pharm. Corp. v.
14 Shalala, 955 F. Supp. 128, 130-32 (D.D.C. 1997), aff'd in part
15 and rev'd in part on other grounds, 140 F.3d 1060 (D.C. Cir.
16 1998); Granutec, Inc. v. Shalala, Nos. 97-1873, 97-1874, 1998 WL
17 153410, at *7, 1998 U.S. App. LEXIS 6685, at *19-*21 (4th Cir.
18 Apr. 3, 1998) (unpublished opinion). In June 1998, at the time
19 the FDA removed the requirement, Barr -- armed with the new rule
20 rendering the first ANDA paragraph IV filer eligible for the 180-
21 day exclusivity period even if it had not successfully defended a
22 patent infringement suit -- attempted to block final FDA approval
23 of other generic versions of tamoxifen by claiming entitlement to
24 the 180-day exclusivity period. See Tamoxifen II, 277 F. Supp.
25 2d at 127 (citing "Petition for Stay of Action" filed with the
26 FDA on June 26, 1998).

1 At the time, Pharmachemie had received tentative
2 approval from the FDA to distribute its version of the drug,
3 Mylan was awaiting approval to do the same, and both Pharmachemie
4 and Mylan's thirty-month stays under section 355(j)(5)(B)(iii),
5 triggered by Zeneca's infringement lawsuits, were soon to expire.
6 See Compl. ¶¶ 61-63 (noting that the 30-month stay for Mylan was
7 scheduled to expire on July 10, 1998, and for Pharmachemie in
8 August 1998); Pharmachemie B.V. v. Barr Labs., Inc., 276 F.3d
9 627, 630 (D.C. Cir. 2002) (noting that Pharmachemie was granted
10 tentative approval on April 3, 1997); Mylan Pharms. Inc. v.
11 Henney, 94 F. Supp. 2d 36, 44 (D.D.C. 2000), vacated and
12 dismissed as moot sub nom. Pharmachemie B.V. v. Barr Labs., Inc.,
13 284 F.3d 125 (D.C. Cir. 2002) (per curiam). Because of the rule
14 change, however, the FDA was able to, and on March 2, 1999, did,
15 grant Barr's petition to confirm its entitlement to the
16 exclusivity period despite the fact that it had settled, rather
17 than "successfully defended" against, Zeneca's lawsuit. See
18 Tamoxifen II, 277 F. Supp. 2d at 127. The FDA's action
19 effectively delayed the marketing of other generic versions of
20 tamoxifen unless and until Barr triggered and exhausted its
21 180-day exclusivity period by selling its own generic form of the
22 drug, rather than the version manufactured by Zeneca. As noted,
23 Barr had little incentive to do so because it was already
24 distributing Zeneca's version of tamoxifen.

25 Pharmachemie and Mylan challenged the FDA's decision.
26 On March 31, 2000, in Mylan Pharmaceuticals, the United States

1 District Court for the District of Columbia ruled in
2 Pharmachemie's and Mylan's favor. 94 F. Supp. 2d at 54. It
3 concluded that, although Judge Broderick's ruling of invalidity
4 in Tamoxifen I had been vacated by the Settlement Agreement, that
5 ruling was still a court decision sufficient to trigger Barr's
6 180-day exclusivity period, which therefore had already expired.
7 See Mylan Pharms., 94 F. Supp. 2d at 54. As a result, on June
8 26, 2000, the FDA revoked Barr's claim to the 180-day exclusivity
9 period. See Tamoxifen II, 277 F. Supp. 2d at 127.

10 On appeal, however, the District of Columbia Circuit
11 vacated the district court's decision as moot. Pharmachemie, 276
12 F.3d at 634; Pharmachemie, 284 F.3d at 125. The court noted that
13 subsequent to the FDA's decision to approve Barr's application,
14 the district court had ruled against Pharmachemie in Zeneca's
15 patent infringement lawsuit against it. See Pharmachemie, 276
16 F.3d at 629. Thus, even if, as the district court held in Mylan,
17 Barr's 180-day exclusivity period had run, Pharmachemie and
18 Mylan¹¹ were prohibited by the judgments against them in the
19 patent litigation from marketing their generic versions of
20 tamoxifen until Zeneca's patent expired. Zeneca's patent on
21 tamoxifen expired on August 20, 2002, and generic manufacturers
22 began marketing their own versions of tamoxifen soon thereafter.

¹¹ Mylan had agreed to follow the Pharmachemie court decision. See Tamoxifen II, 277 F. Supp. 2d at 127; AstraZeneca UK Ltd., No. 00-2239, slip op. at 2-3.

1 Proceedings in the District Court

2 While these generic manufacturers were litigating the
3 validity of Zeneca's patent on tamoxifen, consumers and consumer
4 groups in various parts of the United States filed some thirty
5 lawsuits challenging the legality of the 1993 Settlement
6 Agreement between Zeneca and Barr. See Tamoxifen II, 277 F.
7 Supp. 2d at 127. Those lawsuits were subsequently transferred by
8 the Judicial Panel on Multidistrict Litigation to the United
9 States District Court for the Eastern District of New York.
10 Subsequently, a consolidated class action complaint embodying the
11 claims was filed. In re Tamoxifen Citrate Antitrust Litig., 196
12 F. Supp. 2d 1371 (J.P.M.L. 2001); Tamoxifen II, 277 F. Supp. 2d
13 at 127. In the consolidated lawsuit, the plaintiffs alleged that
14 the Settlement Agreement unlawfully (1) enabled Zeneca and Barr
15 to resuscitate a patent that the district court had already held
16 to be invalid and unenforceable; (2) facilitated Zeneca's
17 continuing monopolization of the market for tamoxifen; (3)
18 provided for the sharing of unlawful monopoly profits between
19 Zeneca and Barr; (4) maintained an artificially high price for
20 tamoxifen; and (5) prevented competition from other generic
21 manufacturers of tamoxifen. See Tamoxifen II, 277 F. Supp. 2d at
22 127-28. At the heart of the lawsuit was the contention that the
23 Settlement Agreement enabled Zeneca and Barr effectively to
24 circumvent the district court's invalidation of Zeneca's
25 tamoxifen patent in Tamoxifen I, which, the plaintiffs asserted,
26 would have been affirmed by the Federal Circuit. The result of

1 such an affirmance, according to the plaintiffs, would have been
2 that Barr would have received approval to market a generic
3 version of tamoxifen; Barr would have begun marketing tamoxifen,
4 thereby triggering the 180-day exclusivity period; other generic
5 manufacturers would have introduced their own versions of
6 tamoxifen upon the expiration of the exclusivity period, with
7 Zeneca collaterally estopped from invoking its invalidated patent
8 as a defense; and, as a result, the price for tamoxifen would
9 have declined substantially below the levels at which the Zeneca-
10 manufactured drug in fact sold in the market shared by Zeneca and
11 Barr through the Settlement Agreement. Id. at 128. The
12 defendants moved to dismiss the class action complaint pursuant
13 to Federal Rule of Civil Procedure 12(b)(6) for failure to state
14 a claim upon which relief can be granted.

15 On May 15, 2003, in a thorough and thoughtful opinion,
16 the district court granted the defendants' motion to dismiss.
17 See id. at 140. The court noted that although market-division
18 agreements between a monopolist and a potential competitor
19 ordinarily violate the Sherman Act, they are not necessarily
20 unlawful when the monopolist is a patent holder. Id. at 128-29.
21 Pursuant to a patent grant, the court reasoned, a patent holder
22 may settle patent litigation by entering into a licensing
23 agreement with the alleged infringer without running afoul of the
24 Sherman Act. Id. at 129. Yet, the court continued, a patent
25 holder is prohibited from acting in bad faith "beyond the limits
26 of the patent monopoly" to restrain or monopolize trade. Id.

1 (quoting United States v. Line Material Co., 333 U.S. 287, 308
2 (1948) (internal quotation marks omitted)).

3 Analyzing the terms and impact of the Settlement
4 Agreement, the district court concluded that the agreement
5 permissibly terminated the litigation between the defendants,
6 which "cleared the field for other generic manufacturers to
7 challenge the patent." Id. at 133. "Instead of leaving in place
8 an additional barrier to subsequent ANDA filers, the Settlement
9 Agreement in fact removed one possible barrier to final FDA
10 approval -- namely, the existence of ongoing litigation between
11 an existing ANDA filer and a subsequent filer." Id. To the
12 court, this factor distinguished the case from similar cases in
13 which other circuits had held settlement agreements to be
14 unlawful, where the agreement in question did not conclude the
15 underlying litigation and instead prolonged the period during
16 which other generic manufacturers could not enter the market.
17 Id. (distinguishing the Settlement Agreement from the agreements
18 addressed in In re Terazosin Hydrochloride Antitrust Litig., 164
19 F. Supp. 2d 1340, 1346-47 (S.D. Fla. 2000), rev'd sub nom. Valley
20 Drug Co. v. Geneva Pharms., Inc., 344 F.3d 1294 (11th Cir. 2003),
21 cert. denied, 125 S. Ct. 308 (2004), and In re Cardizem CD
22 Antitrust Litig., 105 F. Supp. 2d 618, 632 (E.D. Mich. 2000),
23 aff'd, 332 F.3d 896 (6th Cir. 2003), cert. denied sub nom. Andrx
24 Pharms., Inc. v. Kroger Co., 125 S. Ct. 307 (2004)).

25 The district court was also of the view that the
26 defendants could not be held liable for Barr's FDA petition to

1 preserve its 180-day exclusivity period even if this was a term
2 of the defendants' negotiated Settlement Agreement. Id. at 135.
3 It reasoned that at the time of settlement, Barr could not have
4 successfully pursued its FDA application because the FDA
5 continued to apply the "successful defense" rule until 1997.
6 Id. at 134. It was only after 1997 that Barr petitioned the FDA
7 to preserve its exclusivity period. The court concluded that
8 Barr's petition was

9 an attempt to petition a governmental body in
10 order to protect an arguable interest in a
11 statutory right based on recent developments
12 in the court and at the FDA. As such, the
13 FDA Petition was protected activity under the
14 First Amendment, and long-settled law
15 established that the Sherman Act, with
16 limited exceptions, does not apply to
17 petitioning administrative agencies.

18 Id. at 135. The court concluded that the plaintiffs' complaint
19 therefore did not sufficiently allege a bad-faith settlement in
20 violation of the Sherman Act. Id. at 136.

21 The district court also concluded that even if the
22 plaintiffs had stated an antitrust violation, they did not suffer
23 antitrust injury from either Barr's exclusivity period or the
24 Settlement Agreement and the resulting vacatur of the district
25 court's judgment in Tamoxifen I invalidating the tamoxifen
26 patent. Id. at 136-38. The court noted that "[a]ntitrust
27 injury . . . must be caused by something other than the
28 regulatory action limiting entry to the market." Id. at 137.
29 The court attributed "the lack of competition in the market" not
30 to "the deployment of Barr's exclusivity period, but rather [to]

1 the inability of the generic companies to invalidate or design
2 around" the tamoxifen patent, and their consequent loss of the
3 patent litigation against Zeneca. Id. This was so, the district
4 court concluded, even if Barr's petition to the FDA had delayed
5 the approval of Mylan's ANDA. Id. at 137. Any "injury" suffered
6 by the plaintiffs, said the court, "is thus not antitrust injury,
7 but rather the result of the legal monopoly that a patent holder
8 possesses." Id. at 138.

9 The district court also rejected the plaintiffs'
10 contention that "the settlement and vacatur deprived other
11 generic manufacturers of the ability to make the legal argument
12 that the [Tamoxifen I] judgment (if affirmed) would collaterally
13 estop Zeneca from claiming the [tamoxifen] patent was valid in
14 future patent litigation with other ANDA filers." Id. It
15 reasoned that there is no basis for the assertion that "forcing
16 other generic manufacturers to litigate the validity of the
17 [tamoxifen] patent[] is an injury to competition." Id. The
18 court also referred to the other generic manufacturers'
19 subsequent litigation against Zeneca over the validity of the
20 tamoxifen patent, in which Zeneca prevailed, as additional reason
21 to reject the plaintiffs' assertion that the Federal Circuit
22 would have affirmed Judge Broderick's judgment invalidating the
23 tamoxifen patent. Id.

24 The district court therefore dismissed the plaintiffs'
25 Sherman Act claims. Id. It also dismissed the plaintiffs'
26 state-law claims, which had alleged violations of the antitrust

1 laws of seventeen states and violations of consumer protection
2 and unfair competition laws of twenty-one states, because those
3 claims were based on the same allegations as the plaintiffs'
4 federal antitrust claims. Id. at 138-40. The plaintiffs appeal
5 the dismissal of their claims.

6 On July 28, 2003, the defendants moved in this Court to
7 transfer the appeal to the Federal Circuit on the ground that
8 that court alone has jurisdiction to entertain this appeal. For
9 the reasons stated below, we deny the defendants' motion and
10 affirm the district court's judgment dismissing the plaintiffs'
11 complaint.

12 **DISCUSSION**

13 I. Jurisdiction

14 The defendants argue that this Court does not have
15 jurisdiction to hear this appeal because the case arises under
16 federal patent law and the Federal Circuit has exclusive
17 appellate jurisdiction over such appeals. The plaintiffs respond
18 that we, rather than the Federal Circuit, have appellate
19 jurisdiction because this case does not, on the basis of their
20 well-pleaded complaint, substantially turn on issues of federal
21 patent law. We agree with the plaintiffs.

22 The United States Court of Appeals for the Federal
23 Circuit has exclusive jurisdiction over an appeal from a federal
24 district court "if the jurisdiction of that court was based, in
25 whole or in part, on section 1338 of [title 28]," with exceptions
26 not pertinent here. 28 U.S.C. § 1295(a)(1). Section 1338, in

1 turn, provides that federal district courts shall have original
2 and exclusive jurisdiction "of any civil action arising under any
3 Act of Congress relating to patents." Id. § 1338(a). Therefore,
4 whether the Federal Circuit has jurisdiction over the instant
5 case "turns on whether this is a case 'arising under' a federal
6 patent statute." Christianson v. Colt Indus. Operating Corp.,
7 486 U.S. 800, 807 (1988).

8 A case "arises under" federal patent law if "a well-
9 pleaded complaint establishes either that federal patent law
10 creates the cause of action or that the plaintiff's right to
11 relief necessarily depends on resolution of a substantial
12 question of federal patent law, in that patent law is a necessary
13 element of one of the well-pleaded claims." Id. at 809.¹² This
14 is determined "from what necessarily appears in the plaintiff's
15 statement of his own claim in the bill or declaration, unaided by
16 anything alleged in anticipation or avoidance of defenses which
17 it is thought the defendant may interpose." Id. (internal
18 quotation marks and citation omitted). "[A] case raising a
19 federal patent-law defense does not, for that reason alone, arise
20 under patent law, even if the defense is anticipated in the

¹² The Christianson Court employed the "well-pleaded complaint" test that is routinely applied to determine whether a federal district court has federal-question jurisdiction. See Christianson, 486 U.S. at 808 (quoting Franchise Tax Bd. v. Constr. Laborers Vacation Trust, 463 U.S. 1, 27-28 (1983)); see also, e.g., Aetna Health Inc. v. Davila, 124 S. Ct. 2488, 2494 (2004); Empire HealthChoice Assurance, Inc. v. McVeigh, 396 F.3d 136, 140 (2d Cir. 2005); Bracey v. Bd. of Educ., 368 F.3d 108, 113 (2d Cir. 2004).

1 plaintiff's complaint, and even if both parties admit that the
2 defense is the only question truly at issue in the case." Id.
3 (internal quotation marks and citation omitted).

4 Moreover, even if one theory supporting a claim
5 essentially turns on an issue arising under patent law, as long
6 as there is at least one alternative theory supporting the claim
7 that does not rely on patent law, there is no "arising under"
8 jurisdiction under 28 U.S.C. § 1338. In that case, as the
9 Supreme Court concluded in Christianson: "Since there are
10 reasons completely unrelated to the provisions and purposes of
11 federal patent law why petitioners may or may not be entitled to
12 the relief they seek under their monopolization claim, the claim
13 does not arise under federal patent law." Id. at 812 (internal
14 quotation marks, citation, and alterations omitted); see also id.
15 at 810 ("[A] claim supported by alternative theories in the
16 complaint may not form the basis for § 1338(a) jurisdiction
17 unless patent law is essential to each of those theories.").

18 Applying these principles to the case at hand, we
19 conclude that we have jurisdiction to entertain this appeal. As
20 we explain below, the defendants' contention that "all of
21 [p]laintiffs' claims arise under the patent law because each
22 requires [p]laintiffs to establish that the [tamoxifen] patent
23 was invalid or unenforceable," Appellees' Reply Mem. Supp. Mot.
24 to Transfer Appeal at 2, is mistaken. The theories that would
25 enable the plaintiffs to prevail do not require us to examine
26 whether Judge Broderick's invalidation of the tamoxifen patent

1 would have been upheld on appeal or whether the tamoxifen patent
2 was otherwise enforceable and infringed.

3 If the plaintiffs alleged facts that, if proved, would
4 establish that the Settlement Agreement provided the defendants
5 with benefits exceeding the scope of the tamoxifen patent, they
6 would succeed in alleging an antitrust violation. And if the
7 plaintiffs plausibly alleged that the defendants entered into an
8 agreement to manipulate the 180-day exclusivity period to the
9 defendants' joint benefit, and if they were able to prove based
10 on the facts alleged that they suffered antitrust injury as a
11 result of that agreement, then that, too, would likely be
12 sufficient to state an antitrust violation. Were they to allege
13 and then prove facts sufficient to support either of these
14 theories, the argument that the Settlement Agreement was unlawful
15 "[e]ven if the [tamoxifen p]atent is presumed valid and
16 enforceable," Compl. ¶ 55, would, in our view, be persuasive.

17 Because we conclude that there are "reasons completely
18 unrelated to the provisions and purposes of the patent laws why
19 the plaintiff[s] may or may not be entitled to the relief [they]
20 seek[]," Christianson, 486 U.S. at 810 (internal quotation marks,
21 citation, and alterations omitted), we have jurisdiction to
22 entertain this appeal.

23 II. Standard of Review

24 We review a decision on a motion to dismiss de novo.
25 Gregory v. Daly, 243 F.3d 687, 691 (2d Cir. 2001).

1 "A pleading which sets forth a claim for relief . . .
2 shall contain . . . a short and plain statement of the claim
3 showing that the pleader is entitled to relief." Fed. R. Civ. P.
4 8(a)(2). "Given the Federal Rules' simplified standard for
5 pleading, a court may dismiss a complaint only if it is clear
6 that no relief could be granted under any set of facts that could
7 be proved consistent with the allegations." Swierkiewicz v.
8 Sorema N.A., 534 U.S. 506, 514 (2002) (internal quotation marks,
9 citation, and alteration omitted). There is no heightened
10 pleading requirement in antitrust cases. See Twombly v. Bell
11 Atl. Corp., 425 F.3d 99, --- - --, 2005 WL 2420523, at *6-*12,
12 2005 U.S. App. LEXIS 21390, at *25-*38 (2d Cir. 2005).

13 In reviewing a decision on a motion to dismiss under
14 Federal Rule of Civil Procedure 12(b)(6), we "must accept as true
15 all the factual allegations in the complaint," Leatherman v.
16 Tarrant County Narcotics Intelligence & Coordination Unit, 507
17 U.S. 163, 164 (1993), and "draw all reasonable inferences in
18 plaintiffs' favor," Freedom Holdings Inc. v. Spitzer, 357 F.3d
19 205, 216 (2d Cir. 2004). To survive a motion to dismiss, a
20 plaintiff under section 1 of the Sherman Act need not allege
21 facts that exclude the possibility that the behavior of which
22 complaint is made is legal. See Twombly, 425 F.3d at ---, 2005
23 WL 2420523, at *11, 2005 U.S. App. LEXIS 21390, at *33-*34
24 ("[S]hort of the extremes of "bare bones" and "implausibility," a
25 complaint in an antitrust case need only contain the "short and
26 plain statement of the claim showing that the pleader is entitled

1 to relief" that Rule 8(a) requires.") However, "bald assertions
2 and conclusions of law are not adequate [to state a claim] and a
3 complaint consisting only of naked assertions, and setting forth
4 no facts upon which a court could find a violation of the [law],
5 fails to state a claim under Rule 12(b)(6)." Gregory, 243 F.3d
6 at 692 (internal quotation marks and citations omitted). And
7 "[i]t is . . . improper to assume that the plaintiff can prove
8 facts that it has not alleged or that the defendants have
9 violated the antitrust laws in ways that have not been alleged."
10 Todd v. Exxon Corp., 275 F.3d 191, 198 (2d Cir. 2001) (internal
11 quotation marks, citation, and alterations omitted). At the same
12 time, in antitrust cases, "plaintiffs should be given the full
13 benefit of their proof without tightly compartmentalizing the
14 various factual components and wiping the slate clean after
15 scrutiny of each." Cont'l Ore Co. v. Union Carbide & Carbon
16 Corp., 370 U.S. 690, 699 (1962).

17 III. The Plaintiffs' Antitrust Claims

18 A. The Tension between Antitrust Law and Patent Law

19 With the ultimate goal of stimulating competition and
20 innovation, the Sherman Act prohibits "[e]very contract,
21 combination in the form of trust or otherwise, or conspiracy, in
22 restraint of trade or commerce among the several States,"¹³ 15

¹³ "Although the Sherman Act, by its terms, prohibits every agreement 'in restraint of trade,' th[e Supreme] Court has long recognized that Congress intended to outlaw only unreasonable restraints." State Oil Co. v. Khan, 522 U.S. 3, 10 (1997). Conduct may be deemed an unreasonable restraint of trade in two ways. Conduct may be considered per se unreasonable because it

1 U.S.C. § 1, and "monopoliz[ation], or attempt[s] to monopolize,
2 or combin[at]ions] or conspir[acies] . . . to monopolize any part
3 of the trade or commerce among the several States," id. § 2.¹⁴
4 By contrast, also with the ultimate goal of stimulating
5 competition and innovation, patent law grants an innovator "the
6 right to exclude others from making, using, offering for sale, or
7 selling the invention throughout the United States or importing
8 the invention into the United States" for a limited term of

has "such predictable and pernicious anticompetitive effect, and such limited potential for procompetitive benefit." Id.

In most cases, however, conduct will be evaluated under a "rule of reason" analysis, "according to which the finder of fact must decide whether the questioned practice imposes an unreasonable restraint on competition, taking into account a variety of factors, including specific information about the relevant business, its condition before and after the restraint was imposed, and the restraint's history, nature, and effect." Id. (citation omitted).

The rule-of-reason analysis has been divided into three steps. First, a plaintiff must demonstrate "that the challenged action has had an actual adverse effect on competition as a whole in the relevant market." Capital Imaging Assocs., P.C. v. Mohawk Valley Med. Assocs., 996 F.2d 537, 543 (2d Cir.) (emphasis in original), cert. denied, 510 U.S. 947 (1993). If the plaintiff succeeds in doing so, "the burden shifts to the defendant to establish the 'pro-competitive "redeeming virtues"' of the action." K.M.B. Warehouse Distribs., Inc. v. Walker Mfg. Co., 61 F.3d 123, 127 (2d Cir. 1995) (quoting Capital Imaging Assocs., 996 F.2d at 543). If the defendant succeeds in meeting its burden, the plaintiff then has the burden of "show[ing] that the same pro-competitive effect could be achieved through an alternative means that is less restrictive of competition." Id.

¹⁴ "The offense of monopoly under § 2 of the Sherman Act has two elements: (1) the possession of monopoly power in the relevant market and (2) the willful acquisition or maintenance of that power as distinguished from growth or development as a consequence of a superior product, business acumen, or historic accident." United States v. Grinnell Corp., 384 U.S. 563, 570-71 (1966).

1 years. 35 U.S.C. § 154(a) (1)-(2); see also Dawson Chem. Co. v.
2 Rohm & Haas Co., 448 U.S. 176, 215 (1980) ("[T]he essence of a
3 patent grant is the right to exclude others from profiting by the
4 patented invention."). It is the tension between restraints on
5 anti-competitive behavior imposed by the Sherman Act and grants
6 of patent monopolies under the patent laws, as complicated by the
7 Hatch-Waxman Act, that underlies this appeal. See, e.g., United
8 States v. Singer Mfg. Co., 374 U.S. 174, 196-97 (1963) ("[T]he
9 possession of a valid patent . . . does not give the patentee any
10 exemption from the provisions of the Sherman Act beyond the
11 limits of the patent monopoly.") (internal quotation marks and
12 citation omitted); cf. Andrx Pharms., Inc. v. Biovail Corp.
13 Int'l, 256 F.3d 799, 802 (D.C. Cir. 2001) ("Although the Congress
14 was interested in increasing the availability of generic drugs,
15 it also wanted to protect the patent rights of the pioneer
16 applicants."), cert. denied, 535 U.S. 931 (2002); Schering-Plough
17 Corp. v. F.T.C., 402 F.3d 1056, 1067 (11th Cir. 2005) ("Although
18 the exclusionary power of a patent may seem incongruous with the
19 goals of antitrust law, a delicate balance must be drawn between
20 the two regulatory schemes.").

21 B. The Plaintiffs' Allegations

22 1. Settlement of a Patent Validity Lawsuit. The
23 plaintiffs contend that several factors -- including that
24 Tamoxifen I was settled after the tamoxifen patent had been held
25 invalid by the district court, making the patent unenforceable at

1 the time of settlement -- indicate that if their allegations are
2 proved, the defendants violated the antitrust laws. They argue
3 that the district court in the case before us erred by treating
4 the tamoxifen patent as valid and enforceable. Instead, they
5 say, in accordance with the never-reviewed judgment in Tamoxifen
6 I, the district court in this case should have treated the patent
7 as presumptively invalid for purposes of assaying the sufficiency
8 of the plaintiffs' complaint.

9 We begin our analysis against the backdrop of our
10 longstanding adherence to the principle that "courts are bound to
11 encourage" the settlement of litigation. Gambale v. Deutsche
12 Bank AG, 377 F.3d 133, 143 (2d Cir. 2004). "Where a case is
13 complex and expensive, and resolution of the case will benefit
14 the public, the public has a strong interest in settlement. The
15 trial court must protect the public interest, as well as the
16 interests of the parties, by encouraging the most fair and
17 efficient resolution." United States v. Glens Falls Newspapers,
18 Inc., 160 F.3d 853, 856-57 (2d Cir. 1998). As the Eleventh
19 Circuit recently noted in drug patent litigation similar to the
20 one before us, "There is no question that settlements provide a
21 number of private and social benefits as opposed to the
22 inveterate and costly effects of litigation." Schering-Plough,
23 402 F.3d at 1075.

24 It is well settled that "[w]here there are legitimately
25 conflicting [patent] claims . . . , a settlement by agreement,

1 rather than litigation, is not precluded by the [Sherman] Act,"
2 although such a settlement may ultimately have an adverse effect
3 on competition. Standard Oil Co. v. United States, 283 U.S. 163,
4 171 (1931); cf. Flex-Foot, Inc. v. CRP, Inc., 238 F.3d 1362, 1369
5 (Fed. Cir. 2001) ("[W]hile the federal patent laws favor full and
6 free competition in the use of ideas in the public domain over
7 the technical requirements of contract doctrine, settlement of
8 litigation is more strongly favored by the law."); Nestle Co. v.
9 Chester's Mkt., Inc., 756 F.2d 280, 284 (2d Cir. 1985) ("[T]he
10 district court imposed the heavy burden on trademark defendants
11 of having to continue to litigate when they would prefer to
12 settle, a ruling without precedent."), overruled on other
13 grounds, U.S. Bancorp Mortgage Co. v. Bonner Mall P'ship, 513
14 U.S. 18, 27-29 (1994); Duplan Corp. v. Deering Milliken, Inc.,
15 540 F.2d 1215, 1220 (4th Cir. 1976) ("[T]he settlement of patent
16 litigation, in and of itself, does not violate the antitrust
17 laws."); Asahi Glass Co. v. Pentech Pharms., Inc., 289 F. Supp.
18 2d 986, 991 (N.D. Ill. 2003) (Posner, J., sitting by designation)
19 ("The general policy of the law is to favor the settlement of
20 litigation, and the policy extends to the settlement of patent
21 infringement suits").

22 Rules severely restricting patent settlements might
23 also be contrary to the goals of the patent laws because the
24 increased number of continuing lawsuits that would result would
25 heighten the uncertainty surrounding patents and might delay
26 innovation. See Valley Drug, 344 F.3d at 1308; Daniel A. Crane,

1 Exit Payments in Settlement of Patent Infringement Lawsuits:
2 Antitrust Rules and Economic Implications, 54 Fla. L. Rev. 747,
3 749 (2002). Although forcing patent litigation to continue might
4 benefit consumers in some instances, "patent settlements
5 can . . . promote efficiencies, resolving disputes that might
6 otherwise block or delay the market entry of valuable
7 inventions." Joseph F. Brodley & Maureen A. O'Rourke,
8 Preliminary Views: Patent Settlement Agreements, Antitrust,
9 Summer 2002, at 53.¹⁵ As the Fourth Circuit has observed, "It is
10 only when settlement agreements are entered into in bad faith and
11 are utilized as part of a scheme to restrain or monopolize trade
12 that antitrust violations may occur." Duplan Corp., 540 F.2d at
13 1220.

¹⁵ It is true that had the defendants not settled the underlying patent litigation and had the district court's judgment been affirmed on appeal, Zeneca would have been estopped from asserting the validity of its patent against others seeking to enter the market. See Blonder-Tongue Labs., Inc. v. Univ. of Ill. Found., 402 U.S. 313, 350 (1971). However, it is clearly a permissible byproduct of settlement that future hypothetical plaintiffs might be forced to relitigate the same issues involved in the settled case. Furthermore, before 1994, when district court judgments were vacated as a matter of course upon settlement, see U.S. Bancorp, 513 U.S. at 29 (virtually ending this practice), there was similarly and permissibly no collateral estoppel effect accorded these judgments for the benefit of future hypothetical plaintiffs. See Nestle, 756 F.2d at 284 ("Drumbeating about the need to protect other unknown users of the trademark [in question] will ring hollow indeed in the ears of the present defendants if the peril of a reversal is realized. . . . We see no justification to force these defendants, who wish only to settle the present litigation, to act as unwilling private attorneys general and to bear the various costs and risks of litigation.").

1 We cannot judge this post-trial, pre-appeal settlement
2 on the basis of the likelihood vel non of Zeneca's success had it
3 not settled but rather pursued its appeal. As the Supreme Court
4 noted in another context, "[i]t is just not possible for a
5 litigant to prove in advance that the judicial system will lead
6 to any particular result in his case." Whitmore v. Arkansas, 495
7 U.S. 149, 159-60 (1990). Similarly, "[n]o one can be certain
8 that he will prevail in a patent suit." Asahi Glass, 289 F.
9 Supp. 2d at 993 (emphasis in original). We cannot guess with any
10 degree of assurance what the Federal Circuit would have done on
11 an appeal from the district court's judgment in Tamoxifen I. Cf.
12 In re Ciprofloxacin Hydrochloride Antitrust Litig., 261 F. Supp.
13 2d 188, 200-01 (E.D.N.Y. 2003) ("Cipro II") (noting that courts
14 should not speculate about the outcome of litigation) (citing
15 Boehm v. Comm'r, 146 F.2d 553 (2d Cir.), aff'd, 326 U.S. 287
16 (1945)); In re Ciprofloxacin Hydrochloride Antitrust Litig., 363
17 F. Supp. 2d 514, 529 (E.D.N.Y. 2005) ("Cipro III") ("[M]aking the
18 legality of a patent settlement agreement, on pain of treble
19 damages, contingent on a later court's assessment of the patent's
20 validity might chill patent settlements altogether."). And
21 because in this case any such guess is retrospective, it would in
22 any event be of limited value in assessing the behavior of the
23 defendants at the relevant time: when they were entering into the
24 Settlement Agreement. See Valley Drug, 344 F.3d at 1306 ("[T]he
25 reasonableness of agreements under the antitrust laws are to be
26 judged at the time the agreements are entered into.") (citing,

1 inter alia, SCM Corp. v. Xerox Corp., 645 F.2d 1195, 1207 (2d
2 Cir. 1981), cert. denied, 455 U.S. 1016 (1982)).

3 As the plaintiffs correctly point out, the Federal
4 Circuit would have reviewed Judge Broderick's factual findings
5 underlying his conclusion of invalidity with considerable
6 deference, rather than engaging in a presumption of validity.
7 See Shelcore, Inc. v. Durham Indus., Inc., 745 F.2d 621, 624-25
8 (Fed. Cir. 1984) ("The presumption of validity does not guide our
9 analysis on appeal. Rather, we review the findings and
10 conclusions of a district court under the appropriate standards
11 of review."). But it takes no citation to authority to conclude
12 that appellants prevail with some frequency in federal courts of
13 appeals even when a high degree of deference is accorded the
14 district courts from which the appeals are taken.¹⁶ Accordingly,
15 it does not follow from the deference that was due by the Federal
16 Circuit to the district court in Tamoxifen I that Zeneca would
17 have been unsuccessful on appeal. See Cipro III, 363 F. Supp. 2d
18 at 529 (noting that with few exceptions "courts assessing the
19 legality of patent settlement agreements have not engaged in a
20 post hoc determination of the potential validity of the
21 underlying patent . . . when deciding whether an agreement
22 concerning the patent violates antitrust law").

¹⁶ It may be worth noting, although in and of itself it seems to us to prove little, that the Federal Circuit reversed district court determinations of patent invalidity at a relatively high rate during the relevant time period. See Donald R. Dunner et al., A Statistical Look at the Federal Circuit's Patent Decisions: 1982-1994, 5 Fed. Cir. B.J. 151, 154-55 (1995).

1 The facts of this case provide an additional reason for
2 us to embrace the general rule that we will ordinarily refrain
3 from guessing what a court will hold or would have held. As
4 noted earlier, federal district courts in later lawsuits seeking
5 to enforce the tamoxifen patent concluded, contrary to the court
6 in Tamoxifen I, that the patent was, in fact, valid. While we do
7 not think that these results enable us to estimate the chances
8 that the Federal Circuit would have reversed the judgment of the
9 district court in Tamoxifen I, they at least suggest the extent
10 to which the outcome of such proceedings may be unpredictable.¹⁷

11 The fact that the settlement here occurred after the
12 district court ruled against Zeneca seems to us to be of little
13 moment. There is a risk of loss in all appeals that may give
14 rise to a desire on the part of both the appellant and the
15 appellee to settle before the appeal is decided.¹⁸ Settlements

¹⁷ We thus think that it was appropriate for the district court to take these decisions into account for the limited purpose of rebutting the plaintiffs' conclusory allegation that the Federal Circuit would have affirmed Judge Broderick's decision invalidating the tamoxifen patent. See Mason v. Am. Tobacco Co., 346 F.3d 36, 39 (2d Cir. 2003) ("[L]egal conclusions, deductions or opinions couched as factual allegations are not given a presumption of truthfulness." (internal quotation marks and citations omitted)), cert. denied, 541 U.S. 1057 (2004); Smith v. Local 819 I.B.T. Pension Plan, 291 F.3d 236, 240 (2d Cir. 2002) ("[C]onclusory allegations or legal conclusions masquerading as factual conclusions will not suffice to prevent a motion to dismiss." (internal quotation marks and citation omitted)).

¹⁸ Indeed, our Circuit requires civil litigants to go through a pre-argument, Court-sponsored process called the Civil Appeals Management Plan ("CAMP"), see <http://www.ca2.uscourts.gov/Docs/Forms/CAMP.pdf> and <http://www.ca2.uscourts.gov/Docs/Forms/Preargument.pdf>, designed

1 of legitimate disputes, even antitrust and patent disputes of
2 which an appeal is pending, in order to eliminate that risk, are
3 not prohibited. That Zeneca had sufficient confidence in its
4 patent to proceed to trial rather than find some means to settle
5 the case first should hardly weigh against it.

6 We conclude, then, that without alleging something
7 more than the fact that Zeneca settled after it lost to Barr in
8 the district court that would tend to establish that the
9 Settlement Agreement was unlawful, the assertion that there was a
10 bar -- antitrust or otherwise -- to the defendants' settling the
11 litigation at the time that they did is unpersuasive.

12 2. Reverse Payments. Payments pursuant to the
13 settlement of a patent suit such as those required under the
14 Settlement Agreement are referred to as "reverse" payments
15 because, by contrast, "[t]ypically, in patent infringement cases
16 the payment flows from the alleged infringer to the patent
17 holder." David A. Balto, Pharmaceutical Patent Settlements: The
18 Antitrust Risks, 55 Food & Drug L.J. 321, 335 (2000). Here, the
19 patent holder, which, if its patent is valid, has the right to
20 prevent the alleged infringer from making commercial use of it,
21 nonetheless pays that party not to do so. Seeking to supply the
22 "something more" than the fact of settlement that would render

in part to facilitate just such post-judgment, pre-appellate
argument settlements -- which it accomplishes with significant
success. See Gilbert J. Ginsburg, The Case for a Mediation
Program in the Federal Circuit, 50 Am. U. L. Rev. 1379, 1383
(2001) (reporting estimate that forty-five to fifty percent of
civil cases pending before the Second Circuit settle each year).

1 the Settlement Agreement unlawful, the plaintiffs allege that the
2 value of the reverse payments from Zeneca to Barr thereunder
3 "greatly exceeded the value of Barr's 'best case scenario' in
4 winning the appeal . . . and entering the market with its own
5 generic product." Appellants' Br. at 27.

6 It is the size, not the mere existence, of Zeneca's
7 reverse payment that the plaintiffs point to in asserting that
8 they have successfully pleaded a Sherman Act cause of action. In
9 explaining our analysis, though, it is worth exploring the notion
10 advanced by others that the very existence of reverse payments
11 establishes unlawfulness. See Balto, supra, at 335 ("A payment
12 flowing from the innovator to the challenging generic firm may
13 suggest strongly the anticompetitive intent of the parties in
14 entering the agreement and the rent-preserving effect of that
15 agreement."); Herbert Hovenkamp et al., Anticompetitive
16 Settlement of Intellectual Property Disputes, 87 Minn. L. Rev.
17 1719, 1751 (2003) ("[T]he problem of exclusion payments can arise
18 whenever the patentee has an incentive to postpone determination
19 of the validity of its patent.").

20 Heeding the advice of several courts and commentators,
21 we decline to conclude (and repeat that the plaintiffs do not ask
22 us to conclude) that reverse payments are per se violations of
23 the Sherman Act such that an allegation of an agreement to make
24 reverse payments suffices to assert an antitrust violation. We
25 do not think that the fact that the patent holder is paying to
26 protect its patent monopoly, without more, establishes a Sherman

1 Act violation. See Valley Drug, 344 F.3d at 1309 (concluding
2 that the presence of a reverse payment, by itself, does not
3 transform an otherwise lawful settlement into an unlawful one);
4 Asahi Glass, 289 F. Supp. 2d at 994 (asserting that "[a] ban on
5 reverse-payment settlements would reduce the incentive to
6 challenge patents by reducing the challenger's settlement options
7 should he be sued for infringement, and so might well be thought
8 anticompetitive," and observing that if the parties decided not
9 to settle, and the patent holder ultimately prevailed in the
10 infringement lawsuit, there would be the same level of
11 competition as in the reverse payment case); Thomas F. Cotter,
12 Refining the "Presumptive Illegality" Approach to Settlements of
13 Patent Disputes Involving Reverse Payments: A Commentary on
14 Hovenkamp, Janis & Lemley, 87 Minn. L. Rev. 1789, 1807 (2003)
15 (noting that "the plaintiff often will have an incentive to pay
16 the defendant not to enter the market, regardless of whether the
17 former expects to win at trial," which "suggests that reverse
18 payments should not be per se illegal, since they are just as
19 consistent with a high probability of validity and infringement
20 as they are with a low probability. It also suggests that
21 reverse payments should not be per se legal for the same
22 reason."). But see Cardizem, 332 F.3d at 911 (calling a forty-
23 million-dollar reverse payment to a generic manufacturer "a
24 naked, horizontal restraint of trade that is per se illegal
25 because it is presumed to have the effect of reducing competition

1 in the market for Cardizem CD and its generic equivalents to the
2 detriment of consumers").

3 As other courts have noted, moreover, reverse payments
4 are particularly to be expected in the drug-patent context
5 because the Hatch-Waxman Act created an environment that
6 encourages them. See Cipro II, 261 F. Supp. 2d at 252 (noting
7 that the Hatch-Waxman Act "has the unintended consequence of
8 altering the litigation risks of patent lawsuits" and concluding
9 that "reverse payments are a natural by-product of the
10 Hatch-Waxman process"); accord Schering-Plough, 402 F.3d at 1074.

11 In the typical patent infringement case, the alleged
12 infringer enters the market with its drug after the investment of
13 substantial sums of money for manufacturing, marketing, legal
14 fees, and the like. The patent holder then brings suit against
15 the alleged infringer seeking damages for, inter alia, its lost
16 profits. If the patent holder wins, it receives protection for
17 the patent and money damages for the infringement. And in that
18 event, the infringer loses not only the opportunity to continue
19 in the business of making and selling the infringing product, but
20 also the investment it made to enter the market for that product
21 in the first place. And it must pay damages to boot. It makes
22 sense in such a circumstance for the alleged infringer to enter
23 into a settlement in which it pays a significant amount to the
24 patent holder to rid itself of the risk of losing the litigation.

25 By contrast, under the Hatch-Waxman Act, the patent
26 holder ordinarily brings suit shortly after the paragraph IV ANDA

1 has been filed -- before the filer has spent substantial sums on
2 the manufacturing, marketing, or distribution of the potentially
3 infringing generic drug. The prospective generic manufacturer
4 therefore has relatively little to lose in litigation
5 precipitated by a paragraph IV certification beyond litigation
6 costs and the opportunity for future profits from selling the
7 generic drug. Conversely, there are no infringement damages for
8 the patent holder to recover, and there is therefore little
9 reason for it to pursue the litigation beyond the point at which
10 it can assure itself that no infringement will occur in the first
11 place.

12 Accordingly, a generic marketer has few disincentives
13 to file an ANDA with a paragraph IV certification. The
14 incentive, by contrast, may be immense: the profits it will
15 likely garner in competing with the patent holder without having
16 invested substantially in the development of the drug, and, in
17 addition, possible entitlement to a 180-day period (to be
18 triggered at its inclination) during which it would be the
19 exclusive seller of the generic drug in the market.¹⁹

¹⁹ In this case, Barr could not at the time of the Settlement Agreement count on obtaining the 180-day exclusive period from the FDA because, as a settler rather than a "successful defender," it at least appeared that it was unlikely to be entitled to the period of exclusivity -- in other words, it appeared that, by settling, Barr was trading away its exclusivity period. It is noteworthy, nonetheless, that the 180-day period is of substantial benefit to the generic drug manufacturer who obtains it because it gives that manufacturer a significant head start over other manufacturers. See, e.g., Geneva Pharms. Tech. Corp. v. Barr Labs. Inc., 386 F.3d 485, 494, 510 (2d Cir. 2004) (considering claim that defendant's first-mover status converted a transitory advantage into a permanent one, where plaintiffs

1 The patent holder's risk if it loses the resulting
2 patent suit is correspondingly large: It will be stripped of its
3 patent monopoly. At the same time, it stands to gain little from
4 winning other than the continued protection of its lawful
5 monopoly over the manufacture and sale of the drug in question.

6 "Hatch-Waxman essentially redistributes the relative
7 risk assessments and explains the flow of settlement funds and
8 their magnitude. Because of the Hatch-Waxman scheme, [the
9 generic challengers] gain[] considerable leverage in patent
10 litigation: the exposure to liability amount[s] to litigation
11 costs, but pale[s] in comparison to the immense volume of generic
12 sales and profits." Schering-Plough, 402 F.3d at 1074 (citation
13 omitted).

14 Under these circumstances, we see no sound basis for
15 categorically condemning reverse payments employed to lift the
16 uncertainty surrounding the validity and scope of the holder's
17 patent.²⁰

provided testimony that "even though its offer price to the Eckerd and CVS drugstore chains was as much as 25 percent below [the first mover's price], neither chain was willing to leave [the first mover] after having devoted substantial time to switching patients and getting their pharmacists comfortable with the new product"); Mova Pharm., 955 F. Supp. at 131 ("All parties recognize that the earliest generic drug manufacturer in a specific market has a distinct advantage over later entrants.").

²⁰ It has been observed that even the typical settlement of the ordinary patent infringement suit appears to involve what may be characterized as a reverse payment. See Cipro II, 261 F. Supp. 2d at 252 ("[E]ven in the traditional context, implicit consideration flows from the patent holder to the alleged infringer."); cf. Asahi Glass, 289 F. Supp. 2d at 994 ("[A]ny settlement agreement can be characterized as involving

1 3. "Excessive" Reverse Payments. As we have noted,
2 although there are those who contend that reverse payments are in
3 and of themselves necessarily unlawful, the plaintiffs are not
4 among them. They allege instead that "[t]he value of the
5 consideration provided to keep Barr's product off the
6 market . . . greatly exceeded the value Barr could have realized
7 by successfully defending its trial victory on appeal and
8 entering the market with its own competitive generic product."
9 Appellants' Br. at 15. The plaintiffs assert that it is that
10 excessiveness that renders the Settlement Agreement unlawful.²¹

'compensation' to the defendant, who would not settle unless he had something to show for the settlement. If any settlement agreement is thus to be classified as involving a forbidden 'reverse payment,' we shall have no more patent settlements." (emphasis in original)); Daniel A. Crane, Ease Over Accuracy in Assessing Patent Settlements, 88 Minn. L. Rev. 698, 700 (2004) ("It makes no sense to single out exclusion payments for disfavor when the same potential for collusion arises in any settlement involving the defendant's exit."). A blanket rule that all settlements involving reverse payments are unlawful could thus conceivably endanger many ordinary settlements of patent litigation.

²¹ The Federal Trade Commission and some commentators have proposed similar or even more stringent rules. See In re Schering-Plough Corp., No. 9297, final order at 4, 2003 WL 22989651, 2003 FTC LEXIS 187 (Fed. Trade Comm'n Dec. 8, 2003) (applying a rule under which generic manufacturers would not be permitted to receive reverse payments that exceeded "the lesser of the [patent] [h]older's expected future litigation costs to resolve the Patent Infringement Claim or \$2 million"), vacated, 402 F.3d 1056 (11th Cir. 2005); Hovenkamp et al., supra, at 1759 (proposing that "[i]n an antitrust challenge, a payment from a patentee to an infringement defendant for the latter's exit from the market is presumptively unlawful," and that the "infringement plaintiff can defend by showing both (1) that the ex ante likelihood of prevailing in its infringement lawsuit is significant, and (2) that the size of the payment is no more than the expected value of litigation and collateral costs attending the lawsuit").

1 We agree that even if "reverse payments are a natural by-product
2 of the Hatch-Waxman process," Cipro II, 261 F. Supp. 2d at 252,
3 it does not follow that they are necessarily lawful, see
4 Hovenkamp et al., supra, at 1758 ("We do not think it follows
5 that because it is rational for the patentee to agree to an
6 exclusion payment, that payment cannot be anticompetitive. Far
7 from it."). But

8 [o]nly if a patent settlement is a device for
9 circumventing antitrust law is it vulnerable
10 to an antitrust suit. Suppose a seller
11 obtains a patent that it knows is almost
12 certainly invalid (that is, almost certain
13 not to survive a judicial challenge), sues
14 its competitors, and settles the suit by
15 licensing them to use its patent in exchange
16 for their agreeing not to sell the patented
17 product for less than the price specified in
18 the license. In such a case, the patent, the
19 suit, and the settlement would be devices --
20 masks -- for fixing prices, in violation of
21 antitrust law.

22 Asahi Glass, 289 F. Supp. 2d at 991. "If, however, there is
23 nothing suspicious about the circumstances of a patent
24 settlement, then to prevent a cloud from being cast over the
25 settlement process a third party should not be permitted to haul
26 the parties to the settlement over the hot coals of antitrust
27 litigation." Id. at 992.

28 There is something on the face of it that does seem
29 "suspicious" about a patent holder settling patent litigation
30 against a potential generic manufacturer by paying that
31 manufacturer more than either party anticipates the manufacturer
32 would earn by winning the lawsuit and entering the newly

1 competitive market in competition with the patent holder. Why,
2 after all -- viewing the settlement through an antitrust lens --
3 should the potential competitor be permitted to receive such a
4 windfall at the ultimate expense of drug purchasers? We think,
5 however, that the suspicion abates upon reflection. In such a
6 case, so long as the patent litigation is neither a sham nor
7 otherwise baseless, the patent holder is seeking to arrive at a
8 settlement in order to protect that to which it is presumably
9 entitled: a lawful monopoly over the manufacture and distribution
10 of the patented product.²²

11 If the patent holder loses its patent monopoly as a
12 result of defeat in patent litigation against the generic
13 manufacturer, it will likely lose some substantial portion of the
14 market for the drug to that generic manufacturer and perhaps
15 others. The patent holder might also (but will not

²² The dissent questions what it sees as our reliance on the presumption of validity of the patent at the time of the settlement. Post at [16-17]. Even after a district court holds a patent invalid, it is treated as presumptively valid under 35 U.S.C. § 282 on appeal. See Rosco, Inc. v. Mirror Lite Co., 304 F.3d 1373, 1377-78 (Fed. Cir. 2002). But irrespective of whether there was a presumption or where any such presumption lay at the time of settlement, we think that Zeneca was then entitled to protect its tamoxifen patent monopoly through settlement. The question for this Court is whether the settlement extended the patent's scope. If the judgment of the district court against a patent's validity put an end to the patent monopoly that the patent holder was entitled to protect, then any settlement after judgment of the district court holding the patent invalid would extend the patent monopoly beyond the patent's scope and therefore be unlawful. We do not think that to be the law, a view which appears to be consistent with the plaintiffs'. See Appellants' Reply Br. at 4, Heading "B." ("Hatch-Waxman Patent Infringement Litigation Can Be Settled, Even On Appeal, Without Violating The Antitrust Laws.").

1 necessarily)²³ lower its price in response to the competition.
2 The result will be, unsurprisingly, that (assuming that lower
3 prices do not attract significant new purchasers for the drug)
4 the total profits of the patent holder and the generic
5 manufacturer on the drug in the competitive market will be lower
6 than the total profits of the patent holder alone under a patent-
7 conferred monopoly. In the words of the Federal Trade
8 Commission: "The anticipated profits of the patent holder in the
9 absence of generic competition are greater than the sum of its
10 profits and the profits of the generic entrant when the two
11 compete." In re Schering-Plough Corp., No. 9297, slip op. at 27,
12 2003 WL 22989651, 2003 FTC LEXIS 187 (Fed. Trade Comm'n Dec. 8,
13 2003), vacated, 402 F.3d 1056 (11th Cir. 2005). It might
14 therefore make economic sense for the patent holder to pay some
15 portion of that difference to the generic manufacturer to
16 maintain the patent-monopoly market for itself. And, if that
17 amount exceeds what the generic manufacturer sees as its likely
18 profit from victory, it seems to make obvious economic sense for
19 the generic manufacturer to accept such a payment if it is
20 offered.²⁴ We think we can safely assume that the patent holder

²³ There is authority for the proposition that when its patent monopoly is ended, the patent holder might actually raise the price on its branded product, rather than lower it in response to generic competition. See Congr. Budget Office, How Increased Competition from Generic Drugs Has Affected Prices and Returns in the Pharmaceutical Industry 29-31 (July 1998), available at <http://www.cbo.gov/ftpdocs/6xx/doc655/pharm.pdf> (last visited May 12, 2005).

²⁴ To illustrate using a vastly oversimplified hypothetical example (ignoring, for example, legal fees and costs): Suppose

1 will seek to pay less if it can, but under the circumstances of a
2 paragraph IV Hatch-Waxman filing, as we have discussed, the ANDA
3 filer might well have the whip hand. Cf. Valley Drug, 344 F.3d
4 at 1310 ("Given the asymmetries of risk and large profits at
5 stake, even a patentee confident in the validity of its patent
6 might pay a potential infringer a substantial sum in
7 settlement.").

8 Of course, the law could provide that the willingness
9 of the patent holder to settle at a price above the generic
10 manufacturer's projected profit betrays a fatal disbelief in the
11 validity of the patent or the likelihood of infringement, and

the patent holder is selling 1,000,000 pills per year at a \$1 profit per pill (for a total profit of \$1,000,000). The generic manufacturer files a paragraph IV ANDA, and the patent holder responds by bringing suit to protect its patent. If the patent holder projects that, should it lose the suit, it will thereafter sell only 250,000 pills per year at a \$.90 profit per pill (for a total profit of \$225,000) in the competitive market, and the generic will sell 750,000 pills per year at a profit of \$.60 per pill (for a total profit of \$450,000) -- so that total market profits are now down from \$1,000,000 to \$675,000 -- it would make economic sense for the patent holder to pay the generic manufacturer something more than the \$450,000 the generic manufacturer would make in a competitive market to settle the litigation. If it paid \$500,000 a year to the generic manufacturer -- \$50,000 more than the generic manufacturer could earn in the market in a "best case scenario" -- for example, it would thereby retain the ability to make \$500,000 per year selling its branded pills (\$1,000,000 profit less \$500,000 per year paid to the generic), \$275,000 more per year than it would earn if it paid nothing to the generic but lost the patent litigation and with it the patent monopoly. It might well be sensible for the patent holder to enter into this sort of settlement, depending in part on its perceived prospects for winning the litigation, and it would seem difficult for the generic manufacturer to refuse. The \$325,000 of yearly monopoly profits which accrued to the patent holder before the litigation began would thereafter be divided between the patent holder and the generic manufacturer.

1 that the patent holder therefore ought not to be allowed to
2 maintain its monopoly position. Perhaps it is unwise to protect
3 patent monopolies that rest on such dubious patents. But even if
4 large reverse payments indicate a patent holder's lack of
5 confidence in its patent's strength or breadth, we doubt the
6 wisdom of deeming a patent effectively invalid on the basis of a
7 patent holder's fear of losing it.

8 [T]he private thoughts of a patentee, or of
9 the alleged infringer who settles with him,
10 about whether the patent is valid or whether
11 it has been infringed is not the issue in an
12 antitrust case. A firm that has received a
13 patent from the patent office (and not by
14 fraud . . .), and thus enjoys the
15 presumption of validity that attaches to an
16 issued patent, 35 U.S.C. § 282, is entitled
17 to defend the patent's validity in court, to
18 sue alleged infringers, and to settle with
19 them, whatever its private doubts, unless a
20 neutral observer would reasonably think
21 either that the patent was almost certain to
22 be declared invalid, or the defendants were
23 almost certain to be found not to have
24 infringed it, if the suit went to judgment.
25 It is not "bad faith" to assert patent rights
26 that one is not certain will be upheld in a
27 suit for infringement pressed to judgment and
28 to settle the suit to avoid risking the loss
29 of the rights. No one can be certain that he
30 will prevail in a patent suit.

31 Asahi Glass, 289 F. Supp. 2d at 992-93 (citation omitted)
32 (emphasis in original).

33 Such a rule would also fail to give sufficient
34 consideration to the patent holder's incentive to settle the
35 lawsuit without reference to the amount the generic manufacturer
36 might earn in a competitive market, even when it is relatively
37 confident of the validity of its patent -- to insure against the

1 possibility that its confidence is misplaced, or, put another
2 way, that a reviewing court might (in its view) render an
3 erroneous decision. Cf. Schering-Plough, 402 F.3d at 1075-76.
4 Whatever the degree of the patent holder's certainty, there is
5 always some risk of loss that the patent holder might wish to
6 insure against by settling.

7 This case is illustrative. It is understandable that
8 however sure Zeneca was at the outset that its patent was valid,
9 settlement might have seemed attractive once it lost in the
10 district court, especially in light of the deferential standard
11 the Federal Circuit was expected to apply on review. But its
12 desire to settle does not necessarily belie Zeneca's confidence
13 in the patent's validity. Indeed, Zeneca's pursuit of subsequent
14 litigation seeking to establish the tamoxifen patent's validity,
15 and the success of that litigation, strongly suggest that such
16 confidence persisted and was not misplaced. Neither do we think
17 that the settlement's entry after the district court rendered a
18 judgment against Zeneca should counsel against the settlement's
19 propriety. It would be odd to handicap the ability of Zeneca to
20 settle after it had displayed sufficient confidence in its patent
21 to risk a finding of invalidity by taking the case to trial.

22 We are unsure, too, what would be accomplished by a
23 rule that would effectively outlaw payments by patent holders to
24 generic manufacturers greater than what the latter would be able
25 to earn in the market were they to defend successfully against an
26 infringement claim. A patent holder might well prefer such a

1 settlement limitation -- it would make such a settlement cheaper
2 -- while a generic manufacturer might nonetheless agree to settle
3 because it is less risky to accept in settlement all the profits
4 it expects to make in a competitive market rather than first to
5 defend and win a lawsuit, and then to enter the marketplace and
6 earn the profits. If such a limitation had been in place here,
7 Zeneca might have saved money by paying Barr the maximum such a
8 rule might allow -- what Barr was likely to earn if it entered
9 the market -- and Barr would have received less than it could
10 have if it were free to negotiate the best deal available -- as
11 it did here. But the resulting level of competition, and its
12 benefit to consumers, would have been the same. The monopoly
13 would have nonetheless endured -- but, to no apparent purpose, at
14 less expense to Zeneca and less reward for Barr.

15 It strikes us, in other words, as pointless to permit
16 parties to enter into an agreement settling the litigation
17 between them, thereby protecting the patent holder's monopoly
18 even though it may be based on a relatively weak patent, but to
19 limit the amount of the settlement to the amount of the generic
20 manufacturer's projected profits had it won the litigation.

21 We are not unaware of a troubling dynamic that is at
22 work in these cases. The less sound the patent or the less clear
23 the infringement, and therefore the less justified the monopoly
24 enjoyed by the patent holder, the more a rule permitting
25 settlement is likely to benefit the patent holder by allowing it
26 to retain the patent. But the law allows the settlement even of

1 suits involving weak patents with the presumption that the patent
2 is valid and that settlement is merely an extension of the valid
3 patent monopoly. So long as the law encourages settlement, weak
4 patent cases will likely be settled even though such settlements
5 will inevitably protect patent monopolies that are, perhaps,
6 undeserved.

7 We also agree with the Cipro III court's observation
8 that:

9 If courts do not discount the exclusionary
10 power of the patent by the probability of the
11 patent's being held invalid, then the patents
12 most likely to be the subject of exclusion
13 payments would be precisely those patents
14 that have the most questionable validity.
15 This concern, on its face, is quite powerful.
16 But the answer to this concern lies in the
17 fact that, while the strategy of paying off a
18 generic company to drop its patent challenge
19 would work to exclude that particular
20 competitor from the market, it would have no
21 effect on other challengers of the patent,
22 whose incentive to mount a challenge would
23 also grow commensurately with the chance that
24 the patent would be held invalid.

25 Cipro III, 363 F. Supp. 2d at 534. There is, of course, the
26 possibility that the patent holder will continue to buy out
27 potential competition such that a settlement with one generic
28 manufacturer protecting the patent holder's ill-gotten patent
29 monopoly will be followed by other settlements with other generic
30 manufacturers should a second, third, and fourth rise to
31 challenge the patent. We doubt, however, that this scenario is
32 realistic.

33 Every settlement payment to a generic manufacturer
34 reduces the profitability of the patent monopoly. The point will

1 come when there are simply no monopoly profits with which to pay
2 the new generic challengers. "[I]t is unlikely that the holder
3 of a weak patent could stave off all possible challengers with
4 exclusion payments because the economics simply would not justify
5 it." Cipro III, 363 F. Supp. 2d at 535 (emphasis supplied). We
6 note in this regard that Zeneca settled its first tamoxifen
7 lawsuit against the first generic manufacturer, Barr, but did not
8 settle, and, as far as we know, did not attempt to settle, the
9 litigation it brought against the subsequent challenging
10 generics, Novopharm, Pharmachemie, and Mylan. (To be sure, the
11 settlement with Barr came after a judgment against Zeneca, while
12 the judgments in Novopharm, Pharmachemie, and Mylan's challenges
13 were for Zeneca.)²⁵

14 An alternative rule is, of course, possible. As
15 suggested above, the antitrust laws could be read to outlaw all,
16 or nearly all, settlements of Hatch-Waxman infringement actions.
17 Patent holders would be required to litigate each threatened
18 patent to final, unappealable judgment. Only patents that the
19 courts held were valid would be entitled to confer monopoly power

²⁵ It seems to us odd for the dissent to urge, in the context of this case, that we have not given proper weight to "the public interest in having the validity of patents litigated." Post at [9]. The Settlement Agreement was a virtual invitation to other generic manufacturers to file paragraph IV certifications and thereby court litigation as to the validity of the tamoxifen patent. It was an invitation that was accepted three times leading to three lawsuits, two of them litigated to judgment, as to the validity of the tamoxifen patent. Accepting the value of litigating the validity of patents in these circumstances, it has hardly been undermined here.

1 on their proprietors. But such a requirement would be contrary
2 to well-established principles of law. As we have rehearsed at
3 some length above, settlement of patent litigation is not only
4 suffered, it is encouraged for a variety of reasons even if it
5 leads in some cases to the survival of monopolies created by what
6 would otherwise be fatally weak patents. It is too late in the
7 journey for us to alter course.²⁶

8 We generally agree, then, with the Eleventh Circuit
9 insofar as it held in Valley Drug that "'simply because a brand-
10 name pharmaceutical company holding a patent paid its generic
11 competitor money cannot be the sole basis for a violation of
12 antitrust law,' unless the 'exclusionary effects of the
13 agreement' exceed the 'scope of the patent's protection.'" Cipro
14 III, 363 F. Supp. 2d at 538 (quoting Schering-Plough, 402 F.3d at
15 1076 (alteration omitted)). Whatever damage is done to
16 competition by settlement is done pursuant to the monopoly
17 extended to the patent holder by patent law unless the terms of
18 the settlement enlarge the scope of that monopoly. "Unless and
19 until the patent is shown to have been procured by fraud, or a

²⁶ The dissent "see[s] no reason why the general standard for evaluating an anti-competitive agreement, i.e., its reasonableness, should not govern in this context." Post at [13]. We think, such a rule, making every settlement of patent litigation, at least in the Hatch-Waxman Act context, subject to the inevitable, lengthy and expensive hindsight of a jury as to whether the settlement constituted a "reasonable" restraint (and, in this case, whether the Federal Circuit would have affirmed or reversed in a patent appeal), would place a huge damper on such settlements contrary to the law that we have discussed at some length that settlements are not only permitted, they are to be encouraged.

1 suit for its enforcement is shown to be objectively baseless,
2 there is no injury to the market cognizable under existing
3 antitrust law, as long as competition is restrained only within
4 the scope of the patent." Cipro III, 363 F. Supp. 2d at 535.

5 We further agree with the Cipro III court that absent
6 an extension of the monopoly beyond the patent's scope, an issue
7 that we address in the next section of this opinion, and absent
8 fraud, which is not alleged here, the question is whether the
9 underlying infringement lawsuit was "objectively baseless in the
10 sense that no reasonable litigant could realistically expect
11 success on the merits." Prof'l Real Estate Investors, Inc. v.
12 Columbia Pictures Indus., Inc., 508 U.S. 49, 60 (1993).²⁷ In

²⁷ The reasoning of the dissent, which quotes an excerpt from this statement, post at [5], is, in our view, largely based on a repeated mis-characterization of our views in this regard. We do not, as the dissent states in one form or another many times, see post at [6], [7 - 9], [13], [16], and [18], think that there is a "requirement" that antitrust plaintiffs "must show that the settled litigation was a sham, i.e., objectively baseless, before the settlement can be considered an antitrust violation . . . ," id. at [6]. There is no such requirement. The central criterion as to the legality of a patent settlement agreement is whether it "exceeds the 'scope of the patent's protection.'" As we pointed out at the outset of this discussion, we think that "[i]f the plaintiffs alleged facts that, if proved, would establish that the Settlement Agreement provided the defendants with benefits exceeding the scope of the tamoxifen patent, they would succeed in alleging an antitrust violation." Ante at [26]; see also, e.g., post at [55] ("[T]he question is whether the 'exclusionary effects of the agreement' exceed the 'scope of the patent's protection.'" Schering-Plough, 402 F.3d at 1076."). A plaintiff need not allege or prove sham litigation in order to succeed in establishing that a settlement has provided defendants "with benefits exceeding the scope of the tamoxifen patent." Whether there is fraud or baseless litigation may be relevant to the inquiry, but it is hardly, we think, "the . . . standard," post at [14], as the dissent posits in order to take issue with it.

1 this case, the plaintiffs do not contend that they can -- and we
2 conclude that in all likelihood they cannot -- establish that
3 Zeneca's patent litigation was baseless, particularly in light of
4 the subsequent series of decisions upholding the validity of the
5 same patent. Cf. id. at 60 n.5 ("A winning lawsuit is by
6 definition a reasonable effort at petitioning for redress and
7 therefore not a sham."). Payments, even "excessive" payments, to
8 settle the dispute were therefore not necessarily unlawful.

9 4. The Terms of the Settlement Agreement. Inasmuch as
10 we conclude that neither the fact of settlement nor the amount of
11 payments made pursuant thereto as alleged by the plaintiffs would
12 render the Settlement Agreement unlawful, we must assess its
13 other terms to determine whether they do. As we have explained
14 in the previous section of this opinion, we think that the
15 question is whether the "exclusionary effects of the agreement"
16 exceed the "scope of the patent's protection." Schering-Plough,
17 402 F.3d at 1076. Looking to other courts that have addressed
18 similar cases for guidance, and accepting the plaintiffs'
19 allegations as true, we conclude that the Settlement Agreement
20 did not unlawfully extend the reach of Zeneca's tamoxifen patent.

21 First, the Settlement Agreement did not extend the
22 patent monopoly by restraining the introduction or marketing of
23 unrelated or non-infringing products. It is thus unlike the
24 agreement the Sixth Circuit held per se illegal in Cardizem, 332
25 F.3d at 908, which included not only a substantial reverse
26 payment but also an agreement that the generic manufacturer would

1 not market non-infringing products. See id. at 902, 908 & n.13
2 (quoting the court in Cipro II, 261 F. Supp. 2d at 242, which
3 observed that the Cardizem district court, in condemning the
4 settlement agreement in that case, "'emphasized that the
5 agreement [there] restrained Andrx from marketing other
6 bioequivalent or generic versions of Cardizem that were not at
7 issue in the pending litigation, Thus, the court found
8 that the agreement's restrictions extended to noninfringing
9 and/or potentially noninfringing versions of generic Cardizem.'" (alterations in original)); see also Valley Drug, 344 F.3d at
10 1306 n.18 (observing that if the agreement "also prohibited the
11 marketing of non-infringing terazosin products, prohibited [the
12 generic manufacturer] from marketing infringing products beyond
13 the date a district court held the [relevant] patent invalid, and
14 prohibited [the generic manufacturer] from waiving its 180-day
15 exclusivity period" then the agreement "may be beyond the scope
16 of [the patent holder's] lawful right to exclude and, if so,
17 would expose appellants to antitrust liability"); In re K-Dur
18 Antitrust Litig., 338 F. Supp. 2d 517, 532 (D.N.J. 2004) (noting,
19 in connection with a private lawsuit involving the same
20 settlement agreements challenged by the FTC in Schering-Plough,
21 that the plaintiffs "alleged that [the generic manufacturer] not
22 only agreed not to enter the market with the allegedly infringing
23 generic drug at issue in the patent litigation, but agreed not to
24 enter the market with any generic competitor drug, irrespective
25 of whether it infringed the patent" and that another potential
26

1 distributor of generic equivalents also agreed to delay marketing
2 a generic competitor drug and "agreed not to conduct, sponsor,
3 file or support any study of a generic drug's bioequivalence to
4 [the patented drug] before the expiration of the [relevant]
5 patent," and concluding: "These agreements, as alleged, grant
6 rights to Schering in excess of what is granted by the [relevant]
7 patent alone." (emphasis in original)).

8 Like the patent for the compound ciprofloxacin
9 hydrochloride, which was the subject of dispute in the Cipro
10 cases, and unlike the patents at issue in Cardizem and Valley
11 Drug, Zeneca's tamoxifen patent is not a formulation patent,
12 which covers only specific formulations or delivery methods of
13 compounds; rather, it is a patent on a compound that, by its
14 nature, excludes all generic versions of the drug. See
15 Appellees' Br. at 23; Cipro II, 261 F. Supp. 2d at 249-50
16 (observing that the patent in that case covered all formulations
17 and the generic manufacturer could not have avoided it). Because
18 Zeneca's patent therefore precludes all generic versions of
19 tamoxifen, so that any such competing version would, as we
20 understand it, necessarily infringe the patent, the Settlement
21 Agreement did not, by precluding the manufacture of a generic
22 version of tamoxifen, restrain the marketing of any non-
23 infringing products.

24 Second, the Settlement Agreement ended all litigation
25 between Zeneca and Barr and thereby opened the tamoxifen patent
26 to immediate challenge by other potential generic manufacturers,

1 which did indeed follow -- spurred by the additional incentive
2 (at the time) of potentially securing the 180-day exclusivity
3 period available upon a victory in a subsequent infringement
4 lawsuit, since by vacating the district court judgment, Barr
5 ensured (under procedures in effect at the time) that it was not
6 eligible for the exclusivity period. See Cipro II, 261 F. Supp.
7 2d at 242-43 (emphasizing that the settlement in that case
8 extinguished the litigation between Barr and Bayer and that Barr
9 thereby relinquished its claim to the 180-day exclusivity period,
10 thus removing any "bottleneck" to future generic entrants). The
11 Agreement thus avoided a "bottleneck" of the type created by the
12 agreements in Valley Drug and Cardizem, which prevented other
13 generic manufacturers from obtaining approval for their own
14 generic versions from the FDA. Rather than resolve the
15 litigation, the settlements in those cases prolonged it by
16 providing incentives to the defendant generic manufacturers not
17 to pursue the litigation avidly. In Cardizem, for example, the
18 settlement included periodic payments to the generic manufacturer
19 during the pendency of the lawsuit in exchange for its promise
20 not to market a generic drug for which it had already received
21 FDA approval, thereby delaying the market entry of other generic
22 manufacturers "who could not enter until the expiration of [the
23 first-moving generic manufacturer's] 180-day period of marketing
24 exclusivity, which [the generic] had agreed not to relinquish or
25 transfer." Cardizem, 332 F.3d at 907; see also Cipro II, 261 F.
26 Supp. 2d at 243 (noting that in Valley Drug, the generic

1 manufacturer had obtained final FDA approval, yet the settlement
2 agreement "delayed triggering [the generic manufacturer's] 180-
3 day exclusivity period, effectively holding up FDA approval of
4 other generic manufacturers' ANDA IVs.").

5 The disadvantage purportedly suffered by the plaintiffs
6 is not that Barr somehow prevented others from challenging the
7 patent and obtaining FDA approval; nor is it that no other
8 generic manufacturer tried to do so. It is instead that each of
9 the subsequent challenges failed. While it is true that, had the
10 district court's decision in Zeneca's patent infringement lawsuit
11 against Barr been affirmed, other generic manufacturers would
12 have been allowed to market their drugs, there is no legal
13 requirement that parties litigate an issue fully for the benefit
14 of others. See, e.g., Nestle, 756 F.2d at 284.

15 Thus the stated terms of the Settlement Agreement
16 include nothing that would place it beyond the legitimate
17 exclusionary scope of Zeneca's patent: The Settlement Agreement
18 did not have an impact on the marketing of non-infringing or
19 unrelated products, and the Agreement fully resolved the
20 litigation between Zeneca and Barr, clearing the way for other
21 generic manufacturers to seek to enter the market.

22 Finally, the Settlement Agreement did not entirely
23 foreclose competition in the market for tamoxifen. It included a
24 license from Zeneca to Barr that allowed Barr to begin marketing
25 Zeneca's version of tamoxifen eight months after the Settlement
26 Agreement became effective. The license ensured that money also

1 flowed from Barr to Zeneca, decreasing the value of the reverse
2 payment. By licensing tamoxifen to Barr, Zeneca added a
3 competitor to the market, however limited the competition may
4 have been. Unlike reverse payment settlements that leave the
5 competitive situation as it was prior to the litigation,²⁸ the
6 reverse payment in this case was pursuant to an agreement that
7 increased competition in the market for tamoxifen -- even if only
8 a little -- almost nine years before the tamoxifen patent was to
9 expire. Cf. Cipro II, 261 F. Supp. 2d at 209 (noting that if the
10 patent holder had not agreed to pay the generic manufacturers
11 "hundreds of millions of dollars," then the patent holder "would
12 have issued to [the generic manufacturers] a license for
13 distribution of generic Cipro").

14 The Settlement Agreement almost certainly resulted in
15 less price competition than if Barr had introduced its own
16 generic version, of course. The plaintiffs allege that the Barr-
17 distributed, Zeneca-manufactured tamoxifen sold at retail for
18 just five percent less than the Zeneca-branded version, Compl.
19 ¶ 75, compared with what the plaintiffs allege is a typical
20 initial drop of sixteen percent or more, see Oral Argument Tr.,
21 July 12, 2004, at 5, and an eventual drop in a truly competitive
22 market of thirty to eighty percent, Compl. ¶ 75. See also Congr.
23 Budget Office, How Increased Competition from Generic Drugs Has

²⁸ See Asahi Glass, 289 F. Supp. 2d at 994 (noting that in the typical reverse-payment case, "the settlement leaves the competitive situation unchanged from before the defendant tried to enter the market.").

1 Affected Prices and Returns in the Pharmaceutical Industry 32

2 (July 1998), available at

3 <http://www.cbo.gov/ftpdocs/6xx/doc655/pharm.pdf> (last visited May
4 12, 2005) (describing one study that estimated that the average
5 price of a generic drug fell from sixty percent of the brand-name
6 price to thirty-four percent of the brand-name price as the
7 number of generic manufacturers increased from one to ten). This
8 was competition nonetheless. It was certainly more competition
9 than would have occurred had there been no settlement and had
10 Zeneca prevailed on appeal. Cf. Nestle, 756 F.2d at 284 (noting
11 that the district court erred by not placing more weight on the
12 consequences of requiring the litigation to go forward, such as
13 the fact that "the appellees will be forced to bear the costs and
14 risks of further litigation, including the non-trivial risk of a
15 reversal on the merits").

16 We conclude that the facts as alleged in the
17 plaintiffs' complaint, if proved, would not establish that the
18 terms of the Settlement Agreement violated the antitrust laws.
19 In the absence of any plausible allegation that the reverse
20 payment provided benefits to Zeneca outside the scope of the
21 tamoxifen patent, the plaintiffs have not stated a claim for
22 relief with respect to the Settlement Agreement. See Twombly,
23 425 F.3d at ---, 2005 WL 2420523, at *11, 2005 U.S. App. LEXIS
24 21390, at *32-*34.

25 5. Barr's 180-Day Exclusivity Period. The plaintiffs
26 also advance allegations regarding actions that Barr took with

1 respect to the 180-day exclusivity period to which the first
2 paragraph IV filer is entitled under the Hatch-Waxman Act. We
3 confess that it is not altogether clear to us what the import of
4 those allegations is. The plaintiffs contend that Barr's attempt
5 to assert its exclusivity period in 1998, five years after the
6 date of the Settlement Agreement, should be viewed as
7 "circumstantial evidence demonstrating the anticompetitive
8 consequences of [the] agreement[]" among the defendants.
9 Appellants' Reply Br. at 13. They allege that the Settlement
10 Agreement was drafted "careful[ly] to preserve Barr's" ability to
11 "strategically deploy[]" its claim to the exclusivity period.
12 Compl. ¶ 57. And they further allege the existence of an
13 understanding among the defendants as to when and under what
14 circumstances "Barr would assert its claimed exclusivity period
15 rights to prevent . . . FDA approval" of other generic
16 manufacturers' ANDA applications, "even if Zeneca was
17 unsuccessful in using patent litigation to keep another generic
18 competitor off the market."²⁹ Id. ¶ 58. They also contend that
19 because they have alleged an unlawful conspiracy, the issue is
20 only "whether Barr's conduct in blocking generic entry was in
21 furtherance of that alleged conspiracy." Appellants' Br. at 35
22 (emphasis omitted).

23 The defendants contend in response that any
24 consequences of the 180-day exclusivity period resulted from

²⁹ Of course, as it turned out, Zeneca was successful in subsequently protecting its patent in the courts.

1 Barr's petition to the FDA, and that Barr's actions in claiming
2 the 180-day exclusivity period were therefore immune from
3 antitrust scrutiny under the Noerr-Pennington doctrine, which
4 immunizes parties from antitrust liability for injuries resulting
5 from government action prompted by the parties' petitioning
6 activities. See E.R.R. Presidents Conference v. Noerr Motor
7 Freight, Inc., 365 U.S. 127, 136 (1961) (stating that "the
8 Sherman Act does not prohibit two or more persons from
9 associating together in an attempt to persuade the legislature or
10 the executive [or an agency or a court] to take particular action
11 with respect to a law that would produce a restraint or a
12 monopoly"); United Mine Workers of Am. v. Pennington, 381 U.S.
13 657, 670 (1965) ("Joint efforts to influence public officials do
14 not violate the antitrust laws even though intended to eliminate
15 competition."). Such immunity does not disappear even if the
16 petitioning activity is intended to harm competitors. See Noerr,
17 365 U.S. at 138-39. In this case, the defendants assert, because
18 Barr's petitioning activity was protected under Noerr-Pennington,
19 it cannot be the basis for antitrust liability.

20 We are not so sure. Although Noerr-Pennington immunity
21 may lend Barr's actions some protection, it does not immunize all
22 actions with respect to the 180-day exclusivity period from
23 antitrust scrutiny. The doctrine does not extend protection to
24 the defendants "where the alleged conspiracy 'is a mere sham to
25 cover what is actually nothing more than an attempt to interfere
26 directly with the business relationships of a competitor.'" Cal.

1 Motor Transp. Co. v. Trucking Unlimited, 404 U.S. 508, 511 (1972)
2 (quoting Noerr, 365 U.S. at 144). And it "does not authorize
3 anticompetitive action in advance of [the] government's adopting
4 the industry's anticompetitive proposal. The doctrine applies
5 when such action is the consequence of legislation or other
6 governmental action, not when it is the means for obtaining such
7 action." In re Brand Name Prescription Drugs Antitrust Litig.,
8 186 F.3d 781, 789 (7th Cir. 1999) (emphasis in original); see
9 also Juster Assocs. v. City of Rutland, 901 F.2d 266, 271-72 (2d
10 Cir. 1990) (stating that when a claimed restraint is the
11 consequence of government action, it falls within the purview of
12 Noerr-Pennington immunity, but when the restraint is the means by
13 which the defendants seek to obtain favorable government action,
14 it does not). Because we think that an agreement to time the
15 deployment of the exclusivity period to extend a patent's
16 monopoly power might well constitute anticompetitive action
17 outside the scope of a valid patent, we decline to rest our
18 conclusion on the ground of Noerr-Pennington immunity.³⁰

³⁰ "The competitive concern is that the 180-day exclusivity provision can be used strategically by a patent holder to prolong its market power in ways that go beyond the intent of the patent laws and the Hatch-Waxman Act by delaying generic entry for a substantial period." Balto, supra, at 331. An agreement that a "generic manufacturer would not relinquish its 180-day exclusivity . . . prevent[s] other generic manufacturers from entering as well." Id. at 335; see also Hovenkamp et al., supra, at 1755 ("It is widely understood that the 180-day exclusivity period offers the potential for collusive settlement arrangements between pioneers and generics. A pioneer could initiate a patent infringement suit against a first generic ANDA filer and settle the litigation with a 'non-entry' payment to the generic, under which the generic would delay commercialization of the generic product, thus postponing the commencement of the 180-day

1 We nonetheless do not think that the facts as alleged
2 with respect to Barr's claim to the 180-day exclusivity period
3 amount to an antitrust violation.

4 First, as we have explained, our review of the
5 Settlement Agreement convinces us that, accepting the plaintiffs'
6 allegations as true, the defendants did not violate the antitrust
7 laws merely by entering into it. Therefore, even if we were to
8 view Barr's actions with regard to the 180-day exclusivity period
9 as somehow constituting "evidence" -- "circumstantial" or
10 otherwise -- of the "anticompetitive consequences" of the
11 Settlement Agreement, it would not affect our conclusion. The
12 Agreement is no doubt "anticompetitive" -- the plaintiffs need no
13 additional proof of that. It limited competition between generic
14 tamoxifen and Zeneca's branded product. But, as we have seen,
15 because it did not exceed the scope of the tamoxifen patent, it
16 was not an unlawful anticompetitive agreement.

17 Second, because we have concluded that the Settlement
18 Agreement was not itself an unlawful conspiracy, Barr's
19 "block[ing of] generic entry" would not be unlawful as "in
20 furtherance of" an unlawful conspiracy. There would have to be
21 an unlawful conspiracy before Barr's actions could contribute to
22 it.

23 Third, "[t]he factual predicate that is pleaded does
24 need to include [an unlawful] conspiracy among the realm of

exclusivity period and locking other generics out of the market indefinitely.").

1 plausible possibilities. Twombly, 425 F.3d at ---, 2005 WL
2 2420523, at *11, 2005 U.S. App. LEXIS 21390, at *32 (footnote
3 omitted). Assuming that the plaintiffs intended to allege a
4 separate agreement among the defendants relating to Barr's
5 manipulation of its exclusivity period in order to protect the
6 defendants from competition from other generic manufacturers, the
7 pleaded conspiracy seems to us to be "implausible."

8 At the time of the Settlement Agreement, the
9 established law was that a generic manufacturer must
10 "successfully defend" a patent infringement lawsuit in order to
11 obtain exclusivity.³¹ Accordingly, even if Barr might have
12 suspected that the FDA would drop its "successful defense"
13 requirement, it had, at the time, no claim to the exclusionary
14 period. Although the Agreement in this case did include a
15 provision allowing Barr to revert its paragraph III certification
16 back to a paragraph IV certification in the event another generic
17 manufacturer successfully invalidated the patent, it seems
18 farfetched, in light of the law at the time, to construe that

³¹ In Andrx, the defendant attempted unsuccessfully to claim that it was unable to cause any delay in generic entry because the "successful defense" requirement would prevent it from doing so. Andrx Pharms., 256 F.3d at 810. The D.C. Circuit noted that the settlement agreement in that case was signed in September 1997 -- after the district court in Mova issued, in January 1997, a preliminary injunction banning the enforcement of the successful defense requirement. Id. (citing Mova Pharm., 955 F. Supp. at 131-32). Thus, "[t]he timing of the Agreement and of the demise of the successful defense requirement defeats Andrx's argument on this point." Id. In the instant case, however, the Settlement Agreement was executed long before Mova struck down the successful defense requirement.

1 provision as a conscious and unlawful attempt to manipulate the
2 exclusivity period.

3 Moreover, the fact that Barr acted as it did with
4 respect to the deployment of the exclusionary period is easily
5 explained by Barr's own interest in protecting itself from
6 competition through a petition to the FDA for a statutorily
7 prescribed benefit. Nothing that we can draw from the facts
8 alleged in the complaint indicates how Barr's actions in this
9 regard suggest that it was in league with Zeneca.³²

10 Fourth and last, we have grave doubt as to whether,
11 even if the defendants agreed to deploy the exclusionary period
12 to protect their shared monopoly power, the injury that the
13 defendants allege they suffered in this regard constitutes
14 "antitrust injury."

15 To state a claim under the Sherman Act, a plaintiff, in
16 addition to stating an antitrust violation, must allege facts
17 sufficient to prove that it suffered "antitrust injury, which is
18 to say injury of the type the antitrust laws were intended to
19 prevent and that flows from that which makes defendants' acts
20 unlawful." Brunswick Corp. v. Pueblo Bowl-O-Mat, Inc., 429 U.S.

³² The dissent says that a reasonable fact-finder might conclude that sophisticated parties would not have included a provision that allowed Barr to re-file under paragraph IV absent an unlawfully anticompetitive purpose because it "had no potential benefit to either of them" apart from an anti-competitive one. Post at [19]. We disagree. If another generic manufacturer had been successful in having the tamoxifen patent held invalid, it was strongly and legitimately in Barr's interest to be able to re-file so that it could market tamoxifen without risking a violation of the Settlement Agreement.

1 477, 489 (1977) (emphasis omitted); see also George Haug Co.,
2 Inc. v. Rolls Royce Motor Cars Inc., 148 F.3d 136, 139 (2d Cir.
3 1998). "The injury should reflect the anticompetitive effect
4 either of the violation or of anticompetitive acts made possible
5 by the violation." Brunswick, 429 U.S. at 489. "Harm to the
6 antitrust plaintiff is sufficient to satisfy the constitutional
7 standing requirement of injury in fact." Associated Gen.
8 Contractors, Inc. v. Cal. State Council of Carpenters, 459 U.S.
9 519, 535 n.31 (1983).

10 Accepting for the sake of argument that the plaintiffs
11 have stated an antitrust violation by alleging an agreement or
12 understanding between Barr and Zeneca to manipulate the 180-day
13 exclusivity period, we are inclined to agree with the district
14 court's conclusion that any injury that the plaintiffs suffered
15 nonetheless resulted from Zeneca's valid patent and from the
16 inability of other generic manufacturers to establish that the
17 patent was either invalid or not infringed -- and not from any
18 agreement between Barr and Zeneca that Barr should employ its
19 exclusivity powers to exclude competition. See Tamoxifen II, 277
20 F. Supp. 2d at 136-38.

21 As we have noted, at the time that Zeneca and Barr
22 entered into the Settlement Agreement and caused the district
23 court's judgment of patent invalidity to be vacated, Barr was not
24 entitled to the 180-day period of exclusivity. It was only after
25 the FDA announced that it was abandoning the "successful defense"
26 requirement that Barr asserted its claim to the exclusivity

1 period. See Tamoxifen II, 277 F. Supp. 2d at 135. As the
2 district court noted:

3 Barr did not seek similar relief when
4 Novopharm filed its ANDA and challenged the
5 [tamoxifen] patent between 1994 and 1997.
6 Only after the events in 1997 and 1998 . . .
7 did Barr attempt to assert its rights. If
8 Barr intended to protect its exclusivity
9 period on behalf of itself and Zeneca
10 pursuant to the Settlement Agreement, Barr's
11 inactivity during the pendency of the
12 Novopharm litigation is inexplicable.

13 Id. at 134 n.9 (emphasis in original).

14 Therefore, the plaintiffs could not have suffered any
15 antitrust injury with regard to an exclusivity period for Barr
16 from the time the defendants signed the Settlement Agreement
17 until the time the regulations were changed in 1997-1998. During
18 that period, as far as all parties were concerned, the Settlement
19 Agreement had indeed "cleared the field" so that other generic
20 challengers could enter the market. Accordingly, any injury
21 suffered by the plaintiffs during that time period was the result
22 of Zeneca's legitimate patent monopoly -- which remained intact
23 as a result of the lawful Settlement Agreement -- and not the
24 result of any steps that Barr took.

25 The plaintiffs also suffered no antitrust injury from
26 the time the "successful defense" requirement was eliminated
27 until, in 2000, the FDA rejected Barr's claim to the exclusivity
28 period, because the other ANDA filers with a paragraph IV
29 certification ultimately lost their infringement suits against
30 Zeneca. Even if Barr had not successfully petitioned the FDA,

1 other generic manufacturers would not have been able to enter the
2 market with their generic versions without infringing the
3 tamoxifen patent. As the district court rightly noted, this
4 allegation of injury is "based on the lack of competition that
5 could have only existed by illegally infringing on the [tamoxifen
6 p]atent." Id. at 137-38. Thus, the plaintiffs did not suffer
7 antitrust injury then either. See, e.g., Axis, S.p.A. v. Micafil,
8 Inc., 870 F.2d 1105, 1111 (6th Cir.), cert. denied, 493 U.S. 823
9 (1989) (finding no antitrust injury where plaintiffs had stated
10 an antitrust violation, but where the alleged injury would have
11 resulted even in the absence of the antitrust violation, due to
12 the existence of patents preventing market entry).

13 Finally, there is clearly no antitrust injury with
14 regard to Barr's use of the exclusivity period after the FDA
15 rejected Barr's claim to the exclusivity period in 2000. From
16 that time on, no one could have thought that Barr had a claim to
17 an exclusivity period. Any injury suffered by the plaintiffs
18 arose from Zeneca's patent monopoly, which remained valid until
19 its expiration in 2002, after which other generic manufacturers
20 did, in fact, enter the market.

21 For the foregoing reasons, we conclude that the
22 plaintiffs have not sufficiently stated an antitrust claim
23 arising out of the defendants' actions with regard to Barr's 180-
24 day exclusionary period.

1 IV. Leave To Amend

2 The plaintiffs contend that the district court erred in
3 not addressing, and therefore in effectively denying, their
4 request to amend their complaint to state a claim on which relief
5 could be granted. The defendants reply that the district court
6 acted within its discretion in effectively denying the
7 plaintiffs' request -- which appeared in a footnote in the middle
8 of their brief opposing the defendants' motion to dismiss --
9 because the request was buried and because it was, in any event,
10 futile.

11 Federal Rule of Civil Procedure 15(a) provides that "a
12 party may amend the party's pleading . . . by leave of
13 court . . . and leave shall be freely given when justice so
14 requires." A district court has broad discretion to decide
15 whether to grant leave to amend, a decision that we review for an
16 abuse of discretion. Gurary v. Winehouse, 235 F.3d 792, 801 (2d
17 Cir. 2000). It is within the court's discretion to deny leave to
18 amend implicitly by not addressing the request when leave is
19 requested informally in a brief filed in opposition to a motion
20 to dismiss. See id. Furthermore, where amendment would be
21 futile, denial of leave to amend is proper. See Van Buskirk v.
22 N.Y. Times Co., 325 F.3d 87, 91-92 (2d Cir. 2003).

23 The plaintiffs' assertion that, if granted leave to
24 amend, they "would be able to redress perceived deficiencies" in
25 their complaint, Appellants' Br. at 56, does not persuade us.
26 Even were plaintiffs to allege -- as they now assert they are

1 able to -- that the defendants were concerned about the
2 possibility that the Settlement Agreement might run afoul of
3 antitrust law, or that the reverse payments were in excess of
4 Zeneca's litigation costs but "less than the substantial losses
5 Zeneca anticipated upon generic competition," or that the
6 defendants "believed the Federal Circuit would likely affirm" the
7 invalidation of the tamoxifen patent, id., in the absence of any
8 plausible allegation that Zeneca's patent infringement lawsuit
9 was baseless or that the Settlement Agreement otherwise
10 restrained competition beyond the scope of the tamoxifen patent,
11 their complaint would fail to state a claim on which relief can
12 be granted.

13 "[I]t appears beyond doubt that the plaintiff[s] can
14 prove no set of facts in support of [their] claim which would
15 entitle [them] to relief." Conley v. Gibson, 355 U.S. 41, 45-46
16 (1957). The district court therefore did not abuse its
17 discretion in denying the plaintiffs' request for leave to amend.

18 **CONCLUSION**

19 For the foregoing reasons, the judgment of the district
20 court is affirmed.

1 POOLER, Circuit Judge:

2 I respectfully dissent. I believe that the
3 opinion of the court, which dismisses plaintiffs' complaint at
4 the Rule 12(b)(6) stage, shortcuts a process necessary to balance
5 the interests at stake in this litigation. These interests
6 include, on one side, the encouragement of innovation fostered by
7 the patent laws, the public and private interest in amicable
8 settlements, and judicial economy; and, on the other side, an
9 interest in vigorous competition protected by the Sherman Act as
10 well as the interest of consumers in having the validity of a
11 patent litigated. I agree with the majority that balancing is
12 required but differ from them as to (1) the proper balancing
13 analysis, and (2) the ability to perform this analysis without
14 further development of the factual record. In my view,
15 plaintiffs' allegations were sufficient to allow discovery and,
16 thereafter, a more fully informed balancing analysis.

17 **BACKGROUND**

18 **I. Plaintiffs' relevant allegations.**

19 Plaintiffs allege that the various agreements
20 described in the majority opinion are a cover for an agreement to
21 allow Zeneca³³ and Barr to monopolize and allocate the tamoxifen
22 market. In support of this proposition, plaintiffs further allege
23 that (1) at the time the two drug manufacturers entered into

³³ Like the majority, I use "Zeneca" to refer collectively to defendants Zeneca, Inc., Astrazeneca Pharmaceuticals LP, and AstraZeneca, Inc. "Barr" refers to defendant Barr Labs, Inc.

1 their agreements, Zeneca's patent had been declared invalid by a
2 district court and Zeneca's appeal was fully briefed before the
3 Federal Circuit; (2) Zeneca agreed to pay Barr \$21 million and
4 Barr's supplier \$45.4 million in return for Barr's agreement to
5 withdraw its challenge to Zeneca's patent and refrain from
6 entering the generic market until Zeneca's patent expired in
7 2002; (3) the amount paid to Barr exceeded the amount that Barr
8 could have earned by successfully defending its judgment because
9 the 180-day period during which Barr would have been the only
10 generic manufacturer would have been followed immediately by a
11 highly competitive generic market; (4) although the agreement
12 required Barr to convert its paragraph IV certification to a
13 paragraph III certification, it also provided that Barr could
14 revert to a paragraph IV certification if Zeneca's patent was
15 later declared invalid, which would allow Barr and Zeneca to
16 delay the entry of any subsequent generic challenger into the
17 market; (5) in order to render the agreement effective, Barr was
18 required to join Zeneca in moving for vacatur of the judgment,
19 which motion resulted in the vacatur of the district court's
20 determination that the patent was not valid; (6) subsequent
21 generic challengers faced a thirty-month stay before they could
22 enter the market; (7) Barr did indeed employ its exclusivity
23 period against another generic manufacturer, Mylan
24 Pharmaceuticals, when the latter was poised to enter the market;
25 and (8) the savings to end purchasers who bought the tamoxifen
26 that Barr obtained from Zeneca was only about 5% as compared to

1 the 30% to 80% discount typically available where there is true
2 generic competition.

3 **II. The majority's analysis.**

4 The majority's resolution of this appeal rests on
5 a series of premises. First, the majority states that the
6 Sherman Act aims to encourage competition by prohibiting
7 agreements that unreasonably restrain trade. Majority op. at
8 **[29-30 & n.13]**. The majority next states that the patent laws
9 also ultimately aim to stimulate competition and innovation, but
10 that they do so through a system that grants an inventor a time-
11 limited exclusive right in her invention or formulation. Id. at
12 **[30]**. These contrasting goals, the majority posits, create a
13 tension in cases where patent and antitrust overlap and require
14 "a delicate balance." Id. at **[30-31]** (quoting Schering-Plough
15 Corp. v. FTC, 402 F.3d 1056, 1067 (11th Cir. 2005)).

16 After thus recognizing the inherent tension
17 between antitrust and patent law, the majority goes on to
18 articulate principles that it believes should be used to resolve
19 this tension in the context of an antitrust challenge to a Hatch-
20 Waxman settlement agreement. First, it notes the general
21 principle that settlements, including patent settlements in the
22 pharmaceutical area, are to be encouraged because they promote
23 the public interest and the interests of the parties. Id. at
24 **[31-32]**. In addition, the majority relies on the Supreme Court's
25 recognition that "where there are legitimately conflicting

1 [patent] claims . . . a settlement by agreement rather than
2 litigation, is not precluded by the Sherman Act.'" Id. [at 32]
3 (quoting Standard Oil Co. v. United States, 283 U.S. 163, 171
4 (1931)).

5 The majority then suggests that rules that
6 severely restrict patent settlements create undue uncertainty
7 concerning patents and thus might delay the entry of innovative
8 products into the market. It also reasons that, although forcing
9 patent litigation to continue might be pro-competitive in some
10 cases, resolving disputes may also allow the entry into the
11 market of valuable inventions. Id. at [33-34].

12 Turning to the agreements at issue in this case,
13 the majority states that it cannot find them unreasonable based
14 on the likelihood that Barr would maintain its victory on appeal
15 because courts are ill positioned to predict the outcome of
16 litigation. Id. [at 34]. Puzzlingly, after noting that the
17 validity of a settlement agreement must be judged from the
18 viewpoint of the time in which it was made, id. at [35], the
19 majority relies on the fact that other district courts reached a
20 different conclusion from that of the Southern District of New
21 York to show that it is difficult to assess Barr's likelihood of
22 success on appeal, id. at [36]. It finds "of little moment" the
23 fact that the parties reached settlement "after the district
24 court ruled against Zeneca" because all parties have a motivation
25 to eliminate risk on appeal, but finds it significant "[t]hat

1 Zeneca had sufficient confidence in its patent to proceed to
2 trial rather than find some means to settle the case first.” Id.
3 at [37].

4 The court concludes “that without alleging
5 something more than the fact that Zeneca settled after it lost
6 to Barr in the district court,” plaintiffs have not alleged an
7 antitrust violation. Id. at [37]. The first “something more”
8 that the majority considers is the \$21-million reverse payment
9 Zeneca made to Barr in return for the latter’s agreement to stay
10 out of the generic market for tamoxifen and to cooperate in
11 vacating its favorable judgment. It finds no per se bar to
12 reverse payments, indicating that “the fact that the patent
13 holder is paying to protect its patent monopoly [does not],
14 without more, establish[] a Sherman Act violation.” Id. at
15 [39]. The majority also posits that reverse payments are to be
16 expected in the drug patent context because Hatch-Waxman shifted
17 the risk of a lawsuit from an infringer to a patent holder. Id.
18 at 40-43.

19 Next, after conceding that reverse payments that,
20 like the one alleged here, exceed the profits the generic might
21 expect to make if it prevailed in the underlying litigation look
22 suspicious, the majority holds that such excessive reverse
23 payments are not unlawful, explaining that “so long as the patent
24 litigation is neither a sham nor otherwise baseless, the patent
25 holder is seeking to arrive at a settlement in order to protect
26 that to which it is presumably entitled: a lawful monopoly over

1 the manufacture and distribution of the patented product.” Id.
2 at [45].

3 The court then articulates its standard for
4 judging whether a Hatch-Waxman settlement agreement violates the
5 antitrust laws: “[A]bsent an extension of the monopoly beyond
6 the patent’s scope . . . and absent fraud . . . the question is
7 whether the underlying infringement lawsuit was ‘objectively
8 baseless in the sense that no reasonable litigant could
9 realistically expect success on the merits.’” Id. at [54]
10 (quoting Prof’l Real Estate Investors, Inc. v. Columbia Pictures,
11 Inc., 508 U.S. 49, 60 (1993)). The majority then holds that
12 plaintiffs did not and cannot—in light of Zeneca’s subsequent
13 litigation victories—establish that Zeneca’s infringement suit
14 against Barr was objectively baseless. Id. at [55].

15 The majority next considers whether the
16 exclusionary effects of the agreements exceed the patent’s scope
17 and concludes that they do not because (1) the agreements did not
18 bar the introduction of any non-infringing products; (2) they
19 ended all litigation between Zeneca and Barr, thus opening the
20 field to other generic challengers; and (3) they did not entirely
21 foreclose competition because they allowed Barr to market
22 Zeneca’s version of Tamoxifen. Id. at [56-62]. Finally, the
23 majority considers plaintiffs’ allegations concerning Barr’s
24 manipulation of the exclusivity period. It concludes that
25 although “an agreement to time the deployment of the exclusivity

1 period to extend a patent's monopoly power might well constitute
2 anticompetitive action outside the scope of a valid patent," id.
3 at [65], because the agreements themselves did not exceed the
4 scope of Zeneca's lawful patent, Barr's actions could not be
5 unlawful as in furtherance of an original conspiracy, id. at [65-
6 66].

7 The court dismisses as speculative any claim by
8 plaintiffs that Barr and Zeneca entered into a side agreement
9 that Barr would use its exclusivity period in the way it did,
10 claiming that "[a]lthough the Agreement in this case did include
11 a provision allowing Barr to revert its paragraph III
12 certification back to a paragraph IV certification in the event
13 another generic manufacturer successfully invalidated the patent,
14 it seems farfetched, in light of the law at the time, to construe
15 the provision as a conscious and unlawful attempt to manipulate
16 the exclusivity period." Id. at [67]. The law to which the
17 majority refers is a former federal regulation requiring that in
18 order to obtain an exclusivity period, the generic manufacturer
19 must successfully defend a patent infringement suit. See Mova
20 Pharm. Corp. v. Shalala, 140 F.3d 1060, 1065 (D.C. Cir. 1998)
21 (citing former 21 C.F.R. 314.107(c)(1)). The majority also
22 argues that Barr's deployment of the exclusionary period is
23 adequately explained "by [its] own interest in protecting itself
24 from competition through a petition to the FDA for a statutorily
25 described benefit" and that nothing in the complaint suggests a
26 conspiracy. Id. at [67]. Alternatively, the majority suggests

1 that it has grave doubts that the injury plaintiffs allege is
2 antitrust injury because the injury stemmed from the scope of
3 Zeneca's patent and from the inability of other generics to
4 defeat Zeneca's patent. Id. [at 68-71]

5 **DISCUSSION**

6 I differ with both the majority's standard for
7 pleading a Hatch-Waxman-settlement antitrust violation and with
8 several subsidiary holdings, conclusions, or assumptions. The
9 requirement that—unless an antitrust plaintiff demonstrates that
10 a settlement agreement exceeds the scope of the patent—it must
11 show that the settled litigation was a sham, i.e., objectively
12 baseless, before the settlement can be considered an antitrust
13 violation is not soundly grounded in Supreme Court precedent and
14 is insufficiently protective of the consumer interests
15 safeguarded by the Hatch-Waxman Act and the antitrust laws.
16 Beyond that overarching difference, the majority has, in my view,
17 wrongly (1) accorded dispositive deference to Zeneca's patent
18 rights when its patent had been declared invalid at the time of
19 the settlement; (2) focused on subsequent litigation concerning
20 patent validity rather than the litigation posture at the time of
21 settlement; (3) held that the district court could not assess the
22 likelihood that Zeneca would succeed on appeal; (4) held that
23 plaintiffs insufficiently alleged a conspiracy between Barr and
24 Zeneca to deploy Barr's paragraph IV certification when it would
25 delay the market entry of another generic manufacturer; and (5)
26 failed to recognize that whether plaintiffs' injuries stem from

1 the alleged Barr/Zeneca conspiracy or from the failure of other
2 generics to invalidate the patent cannot be resolved on the
3 pleadings.

4 **I. The pleading standard.**

5 Relying principally on Professional Real Estate
6 Investors, the majority concludes that, in order to attack a
7 Hatch-Waxman settlement on antitrust grounds, plaintiffs must
8 allege either that the agreement gave the patent holder benefits
9 beyond the scope of the patent or that the agreement was a sham,
10 that it was "objectively baseless in the sense that no reasonable
11 litigant would realistically expect success on the merits."

12 Majority op. at [54] (quoting 508 U.S. at 60). I agree that a
13 settlement agreement that confers on the patent holder a greater
14 monopoly benefit than does the patent itself is illegal.

15 However, I do not agree that, absent a showing of benefits
16 exceeding the scope of the patent, the antitrust plaintiff must
17 show that the settled litigation was objectively baseless.

18 Professional Real Estate Investors is not apposite
19 because it did not involve the settlement of Hatch-Waxman patent
20 litigation. Rather, plaintiffs brought a copyright infringement
21 case, and defendants countersued, alleging that the suit was a
22 sham and a violation of §§ 1 and 2 of the Sherman Act. 508 U.S.
23 at 52. The district court held that while no infringement
24 occurred, no antitrust violation occurred either because the
25 plaintiffs were entitled to immunity under Eastern Railroad

1 Presidents Conference v. Noerr Motor Freight, Inc., 365 U.S. 127
2 (1961), as their litigation "was clearly a legitimate effort and
3 therefore not a sham." 508 U.S. at 53 (quoting Columbia Pictures
4 Indus., Inc. v. Prof'l Real Estate Investors, Inc., 1990 WL 56166
5 at * 1 (C.D. Cal. 1990). Both the Court of Appeals and the
6 Supreme Court agreed, and the Supreme Court defined "sham" for
7 the purposes of defeating Noerr-Pennington immunity,³⁴ as the
8 majority does here. Id. at 60. The Court was not called upon to
9 decide and did not decide the standard for pleading an antitrust
10 violation; it simply defined "sham," in a context in which it was
11 already clear that the required standard was sham litigation. It
12 is ill-advised, I think, to import the definition of "sham" used
13 where a party must concededly establish that litigation was
14 "sham" to avoid a well-established immunity from antitrust
15 liability to a context in which we are defining antitrust
16 liability in the first instance. Although Zeneca's original suit
17 was likely protected under the standard set out in Professional
18 Real Estate Investors, it does not necessarily follow that the
19 settlement of that suit should be judged on the same grounds.

20 In fact, other leading cases cited in the majority
21 opinion suggest, although I concede they do not mandate, a
22 contrary conclusion. See Standard Oil, 283 U.S. at 180 (noting
23 in the context of upholding cross-licensing agreements for
24 patents against an antitrust challenge that a "master found,

³⁴ Noerr-Pennington immunity derives from both Noerr and
United Mine Workers of Am. v. Pennington, 381 U.S. 657 (1965).

1 after an elaborate review of the entire art, that the presumption
2 of validity attaching to the patents had not been negated in
3 any way; that they merited a broad interpretation; that they had
4 been acquired in good faith; and that the scope of the several
5 groups of patents overlapped sufficiently to justify the threats
6 and fears of litigation."); United States v. Singer Mf'g Co., 374
7 U.S. 174, 197 (1963) (White, Justice, concurring) (noting that
8 the majority had not reached issue of whether "collusive
9 termination of a Patent Office interference proceeding pursuant
10 to an agreement between [certain parties] to help one another to
11 secure as broad a patent monopoly as possible, invalidity
12 considerations, notwithstanding" was sufficient, standing alone,
13 to state an antitrust claim and indicating that he believed it
14 was). Both the majority opinion in Standard Oil and the
15 concurrence in Singer suggest that an antitrust court must go
16 beyond deciding that a lawsuit was not a sham, that is
17 objectively baseless, before it can dismiss an antitrust
18 challenge to the lawsuit's settlement—as opposed to the
19 initiation of the lawsuit—and, in fact, must consider the
20 strength of the patent.

21 Holding that a Hatch-Waxman settlement agreement
22 cannot violate antitrust laws unless the underlying litigation
23 was a sham also ill serves the public interest in having the
24 validity of patents litigated. See United States v. Glaxo Group
25 Ltd., 410 U.S. 52, 57 (1973). This interest exists because "[i]t
26 is as important to the public that competition should not be

1 repressed by worthless patents, as that the patentee of a really
2 valuable invention should be protected in his monopoly."³⁵ Id.
3 at 58. Litigating the validity of drug company patents is
4 critically important to the general well being in light of the
5 recent trend toward capping the maximum amounts insurers and
6 public benefit plans will spend on medications.

7 A Hatch-Waxman settlement, by definition, protects
8 the parties' interests as they see them. Whether it also
9 promotes the public's interest depends on the facts. If the
10 validity of the patent is clear, and the generic company receives
11 a license to market the patent holder's product, competition is
12 increased. However, if, as in this case, the patent has already
13 been shown to be vulnerable to attack and the generic

³⁵ The majority suggests, [**majority op. at 53 n.25**] that this interest was adequately protected through the subsequent suits by other generics. I disagree. This position ignores the time gap between the Barr-Zeneca litigation and the subsequent litigation. During this period, had Barr maintained its victory on appeal, which, as I explain below, was quite likely, very ill consumers would have had access to low cost generic tamoxifen. In addition, once Zeneca's patent protection was gone with respect to Zeneca, it was gone with respect to all generic manufacturers, which would have produced a very competitive market at the close of the 180-day exclusivity period. Thus, it was very important to the public interest that Barr and Zeneca allow the appeal to proceed. This does not mean, as the majority suggests at 49 n.25 that any settlement of patent litigation after the challenger prevails at trial is an antitrust violation. As I discuss at [**13-14**] below, a Hatch-Waxman settlement agreement, even on appeal from a judgment declaring the patent invalid, is not a per se antitrust violation. Rather, a reviewing court must assess the reasonability of the settlement by weighing various factors including the strength of the patent as it appeared at the time of settlement.

1 manufacturer is paid to keep its generic product off the market,
2 it is hard to see how the public benefits.

3 The Hatch-Waxman Act provides an incentive for the
4 second kind of agreement that other patent laws do not provide.
5 Patent litigation other than Hatch-Waxman patent litigation
6 generally proceeds along familiar lines. A patent holder sues an
7 alleged infringer, and the infringer either chooses to go to
8 trial to vindicate its view that the patent is invalid or pays
9 the patent holder money as compensation for damages the patent
10 holder has suffered or as the price of a license. In this
11 context, one can perhaps assume that the parties' relative views
12 on the strength of a patent will result in a pro-competitive or
13 neutral result. If the patent holder believes its patent is
14 strong, it will proceed to trial, knowing that it can collect
15 damages at the end. The generic manufacturer, if it believes the
16 patent holder's patent is weak, may be willing to risk damages
17 and market its product during the litigation, thereby promoting
18 competition. And if the claims are in relative equipoise, a
19 licensing arrangement may well result.

20 In contrast, a generic competitor subject to
21 Hatch-Waxman cannot enter the market for the first thirty months
22 after litigation is commenced against it. See 21 U.S.C. §
23 355(j)(5)(B)(iii). In addition, whether its attack against the
24 patent is strong or weak, the benefit it will obtain by
25 successfully litigating to the finish is not great. At best, it
26 will obtain 180 days in which it will be the exclusive generic on

1 the market. See 21 U.S.C. § 355(j)(5)(B)(iv). On the other
2 hand, the benefits to the public from the completion of
3 litigation can be enormous if the generic challenger prevails as
4 it did, at least initially, here. Once the 180-day exclusivity
5 period is over, any generic that wishes to market a generic
6 product and that can establish its product is bioequivalent to
7 the patented product can enter the market, thus providing
8 increased competition.

9 Moreover, the thirty-month stay provides an
10 incentive to the patent holder to pay its generic competitor more
11 than the generic company could have realized from winning the
12 lawsuit. This is so because once the settlement is reached and
13 the litigation dismissed, another generic manufacturer will have
14 to wait at least thirty months after litigation is commenced
15 against it to begin production.³⁶ Thus, the patent holder will
16 be protected against all generic competition for thirty months
17 after the first lawsuit is terminated. This problem is
18 aggravated when the agreement between the putative competitors
19 provides that the generic company can deploy its exclusivity
20 period after sitting on it until another ANDA applicant attempts
21 to enter the market. These anti-competitive effects—and
22 others not present in this case—have caused antitrust scholars to

³⁶ Of course, other generic challengers could file Paragraph IV certifications before the first litigation is resolved, but a second generic manufacturer has little incentive to incur the cost of litigation. Even if it wins, it will have to wait until after the first generic challenger's exclusivity period has expired to market its product.

1 propose various analytical frameworks for determining whether an
2 antitrust violation has occurred when a patent holder makes a
3 reverse payment to settle patent litigation. The analytical
4 frameworks proposed vary both as to burden of proof and as to the
5 evidence necessary to find a reverse payment illegal.

6 For instance, Herbert Hovenkamp, Mark Janis, and
7 Mark A. Lemly propose that a Hatch Waxman Act settlement that
8 includes a reverse payment be presumed illegal with the patent
9 holder being allowed to rebut this presumption "by showing both
10 (1) that the ex ante likelihood of prevailing in its infringement
11 lawsuit is significant, and (2) that the size of the payment is
12 no more than the expected value of litigation and collateral
13 costs attending the lawsuit." Herbert Hovenkamp et al,
14 Anticompetitive Settlement of Intellectual Property Disputes, 87
15 Minn. L. Rev. 1719, 1759 (2004).

16 Daniel A. Crane urges a standard somewhat more
17 favorable to the settling parties. See Daniel A. Crane, Ease
18 Over Accuracy in Assessing Patent Settlements, 88 Minn. L. Rev.
19 698, 709 (2004) (urging that the dispositive factor should be
20 "the ex ante likelihood that the defendant would be excluded from
21 the market if the case was finally adjudicated"). Id. at 709.
22 Because the settling parties will typically have the most
23 documentation relevant to the issue, he contends that "there is
24 relatively little social cost in requiring the settling parties
25 to retain documents going to the core issues in the patent
26 infringement lawsuit." Id. However, to avoid unduly chilling

1 patent settlements, Crane, unlike Hovenkamp et al, would not
2 shift the burden of proof to the settling parties. Id.

3 Thomas F. Cotter's approach occupies the middle
4 ground. Cotter would leave on the antitrust defendants the
5 burden of demonstrating the legality of a reverse-payment
6 settlement, but he does not adopt Hovenkamp's position that the
7 reverse payment must be limited to litigation costs. See Thomas
8 F. Cotter, Refining the "Presumptive Illegality" Approach to
9 Settlements of Patent Disputes Involving Reverse Payments: A
10 Commentary on Hovenkamp, Janis and Lemley, 87 Minn. L. Rev. 1789,
11 1795-97, 1802 (2003). Rather, he argues that "when the antitrust
12 defendants can show that the payment is below the expected amount
13 of the patent defendant's loss if an injunction were to issue,
14 the burden of proving validity and infringement should be
15 somewhat easier to satisfy than at a full-blown infringement
16 trial." Id. at 1814. Cotter rejects, and the other commentators
17 implicitly reject, the approach adopted by the majority. See id.
18 at 1811 (noting that requiring antitrust plaintiffs to show that
19 patent litigation is a sham "would permit too many anticompetitive
20 settlements to escape scrutiny. A suit with only a 25% chance of
21 success may not be a sham, but a settlement based upon such a low
22 probability estimate reduces consumer welfare for no apparent
23 offsetting benefit.") (footnote omitted).

24 Thus, commentators, precedent, and policy
25 suggest the majority's requirement that an antitrust plaintiff
26 show that a Hatch-Waxman lawsuit settled by agreement was a

1 sham—assuming that the agreement did not convey benefits beyond
2 the scope of the patent—is unjustified. A more searching
3 inquiry and a less stringent standard are required to properly
4 protect all interests. I see no reason why the general
5 standard for evaluating an anti-competitive agreement, i.e.,
6 its reasonableness, should not govern in this context.³⁷ See
7 Clorox. Co. v. Winthrop, Inc., 117 F.3d 50, 56 (2d Cir. 1997).
8 In assessing reasonableness, the fact-finder must consider all
9 the circumstances affecting a restrictive agreement. Id. Of
10 course, the strength of the patent must be central to any
11 antitrust analysis involving a patent. Thus, in assessing the
12 reasonability of a Hatch-Waxman settlement, I would rely
13 primarily on the strength of the patent as it appeared at the
14 time at which the parties settled and secondarily on (a) the
15 amount the patent holder paid to keep the generic manufacturer

³⁷ The majority argues that applying the general rule of reasonableness would “mak[e] every settlement of patent litigation, at least in the Hatch-Waxman Act context, subject to the inevitable, lengthy and expensive hindsight of a jury as to whether the settlement constituted a ‘reasonable’ restraint (and, in this case, whether the Federal Circuit would have affirmed or reversed in a patent appeal)” and thus “place a huge damper on such settlements.” Majority op. at [53 n.26]. I doubt that this doomsday scenario would, in fact, take place. Courts would eventually develop rules for judging the reasonableness of a settlement, and as with other litigation, the majority of cases would be resolved in motion practice. Moreover, the majority again emphasizes the acknowledged interest in settlements without acknowledging the absent party in Hatch Waxman litigation settlements, the consumer of medicines. Those consumers have no ability to affect the settlement, which, in some cases, may benefit both parties beyond any expectation they could have from the litigation itself while harming the consumer. There is a panglossian aspect to the majority’s tacit assumption that the settling parties will not act to injure the consumer or competition.

1 from marketing its product, (b) the amount the generic
2 manufacturer stood to earn during its period of exclusivity,
3 and (c) any ancillary anti-competitive effects of the agreement
4 including the presence or absence of a provision allowing the
5 parties to manipulate the generic's exclusivity period.

6 Because plaintiffs allege that the district court's
7 determination of patent invalidity would have been upheld on
8 appeal; that Barr received more than it would have through a
9 victory on appeal; and that Barr and Zeneca agreed that Barr
10 would deploy its paragraph IV certification to defeat other
11 potential generic entrants, I believe that their pleading is
12 adequate.

13 **II. Ancillary issues.**

14 *A. Capacity of the district court to evaluate*
15 *Zeneca's likelihood of success on appeal.*

16 It appears that the court may have been
17 motivated to adopt the "sham" or objectively baseless standard
18 because it overestimated the difficulty of estimating Zeneca's
19 chance of prevailing on appeal. See Majority op. at [34]
20 (citing principally Whitmore v. Arkansas, 495 U.S. 149, 159-60
21 (1990), for the proposition that is impossible to predict the
22 likelihood that Barr would have maintained its patent victory
23 on appeal). Whitmore, is inapposite; there the Court
24 considered a challenge to one inmate's death sentence from a
25 different inmate, Whitmore, who also had been sentenced to

1 death. 495 U.S. at 153. Whitmore argued that he had standing
2 because Arkansas's Supreme Court compared the circumstances of
3 any capital case currently before it to prior capital cases to
4 determine whether the death penalty had been arbitrarily
5 applied. Id. at 156. Whitmore claimed that if he obtained
6 federal habeas relief in the future and if he were again
7 convicted and sentenced to death and appealed to the Arkansas
8 Supreme Court, the failure to include the first inmate's
9 heinous crime in the data base the Arkansas Supreme Court
10 considered would prejudice the review of his sentence. Id. at
11 156-57. The Court dismissed as speculative the probability of
12 Whitmore's obtaining federal habeas relief, the odds that he
13 would be retried, convicted and sentenced to death once more,
14 and the odds "that the addition of [the first inmate's] crimes
15 to a comparative review 'data base' would lead the Supreme
16 Court of Arkansas to set aside a death sentence for Whitmore."
17 Id. at 157. To find that the sequence of events Whitmore
18 alleged would actually occur indeed requires multiple layers of
19 speculation. In contrast, by the time of the settlement, Barr
20 had already prevailed at the district court level. The record
21 in that case is presumably available, the standards of review
22 the appellate court would have employed are well known, and it
23 is not outside the bounds of the district court's competence to
24 predict whether Barr would have prevailed on appeal.³⁸ Judges

³⁸ The majority also relies on Boehm v. Comm'r, 146 F.2d 553 (2d Cir. 1945), aff'd, 326 U.S. 287 (1945). This case also is strikingly inapposite; the Boehm court held only that a taxpayer

1 and juries routinely perform an analogous, but more difficult,
2 task in legal malpractice cases in which they must estimate
3 whether, absent attorney error, a party would have prevailed at
4 trial. Estimating the possibility of success on appeal with
5 the assistance of the full record and the parties' briefs is
6 much simpler. Certainly the review would not be so difficult
7 as to justify a sham litigation test.

8 *B. The strength of Zeneca's patent.*

9 As the majority states, the reasonableness of
10 agreements under antitrust law must be judged by the
11 circumstances existing at the time when the agreements were
12 made. Majority op. at [35]; cf. SCM Corp. v. Xerox Corp., 645
13 F.2d 1195, 1207 (2d Cir. 1981) ("Because the essence of a

must claim a loss in the year it becomes obvious and cannot rely on the inherently speculative outcome of litigation seeking to recover some of that loss to justify claiming it in a later year. 146 F.2d at 555. The relevance of that principle to the case at hand is not immediately obvious to me. It is also interesting to note that the Supreme Court affirmed not on the impossibility of predicting litigation outcome but rather because the Tax Court had found that the suit had "no substantial value" and "[t]here was no evidence in the stipulation of the merits of the suit, the probability of recovery or any assurance of collection of an amount sufficient to pay the creditors' claim . . . and to provide a sufficient surplus for stockholders." 326 U.S. at 294. The majority's additional reliance on Asahi Glass Co. v. Pentech Pharms, 289 F.Supp. 2d 986, 993 (N.D. Il. 2003), and In re Ciprofloxacin Hydrochloride Antitrust Litig., 261 F. Supp. 2d. 188, 200-01 (E.D.N.Y. 2003), requires little discussion. The statement quoted from Asahi Glass that "[n]o one can be certain that he will prevail in a patent suit"—is irrelevant to the capacity of skilled corporate counsel and district court judges to evaluate the likelihood that a determination of patent invalidity will be upheld, and the discussion in Ciprofloxacin relies primarily on Whitmore and Boehm, which I have already discussed.

1 patent is the monopoly or exclusionary power it confers upon
2 the holder; analyzing the lawfulness of the acquisition of the
3 patent [within an antitrust analysis] necessitates that we
4 primarily focus upon the circumstances of the acquiring party
5 and the status of the relevant product and geographic markets
6 at the time of acquisition."). When the agreements here were
7 reached, Judge Broderick had found by clear and convincing
8 evidence that Zeneca's patent was invalid. Therefore, the
9 patent could no longer be considered presumptively valid. See
10 Shelcore, Inc. v. Durham Indus., Inc., 745 F.2d 621, 624-25
11 (Fed. Cir. 1984) ("The presumption of validity does not guide
12 our analysis on appeal. Rather, we review the findings and
13 conclusions of a district court under the appropriate standard
14 of review.")

15 The majority, citing Rosco, Inc. v. Mirror Lite
16 Co., 304 F.3d F.3d 1373, 1377-78 (Fed. Cir. 2002), appears to
17 suggest that Shelcore is no longer good law and that patents
18 are presumed valid on appeal even if they have been declared
19 invalid by the district court. See majority op. at 45 n.22. I
20 respectfully suggest that the majority places too much weight
21 on Rosco. The Rosco court simply reiterated the statutory
22 language indicating that patents are presumed valid. 304 F.3d
23 at 1377. It then held that the district court had improperly
24 found that plaintiffs produced clear and convincing evidence to
25 overcome this presumption and thus reversed its finding of
26 validity as to one patent. Id. at 1378-79. This analysis is a

1 far cry from a statement that a patent must be presumed valid
2 on appeal because the latter holding would imply—contrary to
3 Shelcore and Federal Rule of Civil Procedure 52(a)—that the
4 district court’s factual findings in support of its ultimate
5 conclusion of invalidity are entitled to no deference.

6 Alternatively the majority suggests that it is
7 not important where the presumption of validity lay at the
8 moment of appeal because the patent holder was still entitled
9 to protect its monopoly. Majority op. at 45 n.22. However,
10 even assuming, contrary to my view, that most patent
11 settlements should be subject to the “sham litigation”
12 standard, surely there are strong policy reasons for applying
13 more searching scrutiny where a court of competent jurisdiction
14 has found the patent to be invalid.

15 *C. The majority’s reliance on Zeneca’s subsequent*
16 *litigation victories.*

17 The majority also focuses on the subsequent
18 litigation between other generics and Zeneca to demonstrate
19 that plaintiffs cannot support a claim that Zeneca’s litigation
20 against Barr was sham litigation. Of course, in my view,
21 plaintiffs need not plead or prove sham or objectively baseless
22 litigation. But, in addition, the majority’s discussion of the
23 later litigation appears to violate its own acknowledgment of
24 the basic principle that “the reasonableness of agreements
25 under the antitrust laws are to be judged at the time they are

1 entered into." Majority op. at [35] (quoting Valley Drug Co.
2 v. Geneva Pharms., Inc., 344 F.3d 1294, 1306 (11th Cir. 2003)
3 (citing, inter alia, SCM Corp., 645 F.2d at 1207)). At the
4 time Zeneca and Barr settled the appeal, the existing facts
5 made it fairly likely, if not certain, that Barr would prevail.
6 Judge Broderick had judged the credibility of the witnesses and
7 found that Zeneca willfully withheld information from the FDA.
8 That finding is quintessentially factual. Thus, the Federal
9 Circuit could have set it aside only for clear error. Fed. R.
10 Civ. P. 52(a). Without the record, I cannot say that the
11 Federal Circuit would have been required to affirm, but, as I
12 am sure the majority will concede, it is the rare case in which
13 an appellate court sets aside a trial court's credibility
14 findings.³⁹ Had Barr prevailed, on appeal, as I expect it would
15 have, Zeneca would have been estopped from asserting the
16 validity of its patent in any subsequent litigation.
17 Therefore, there is a certain unfairness in using the
18 subsequent litigation, which would not have existed had Barr
19 prevailed on appeal, to demonstrate that plaintiffs cannot
20 establish that Barr would have prevailed on appeal.⁴⁰

³⁹ I do not find persuasive the statistics the majority cites on the frequency of reversal in the Federal Circuit. These statistics would include decisions construing the patent and making other legal determinations. Therefore, they do nothing to show how frequently the Federal Circuit reverses credibility determinations on appeal.

⁴⁰ I recognize that it makes more sense to use the subsequent litigation to argue that plaintiffs could not prove the Zeneca lawsuit was not a sham. However, as noted, I do not believe this is an appropriate test.

1 D. *Conspiracy to use Barr's paragraph IV*
2 *certification in an anticompetitive manner.*

3 I turn now to the majority's expressed belief
4 that the complaint cannot be read to plausibly allege a
5 conspiracy between Barr and Zeneca to deploy Barr's putative
6 exclusivity period to their joint benefit and to the detriment
7 of other potential competitors and consumers. A complaint need
8 "include only 'a short and plain statement of the claim showing
9 the pleader is entitled to relief.'" Swierkiewicz v. Sorema,
10 534 U.S. 506, 512 (2002) (quoting Fed. R. Civ. P. 8(a)(2)). A
11 simplified notice pleading standard is acceptable because
12 "liberal discovery rules and summary judgment motions" allow
13 the parties "to define disputed facts and issues and to dispose
14 of unmeritorious claims." Id. The majority requires more
15 than Swierkiewicz mandates when it complains of plaintiffs'
16 failure to plead evidentiary facts that create an inference of
17 conspiracy.

18 The court additionally attacks the plausibility
19 of plaintiffs' allegations because, at the time Barr and Zeneca
20 entered into their agreements, a generic enjoyed the benefit of
21 the exclusivity period only if it had successfully defended an
22 infringement lawsuit. See Mova Pharm., 140 F.3d at 1065
23 (citing former 21 C.F.R. § 314.107(c)(1)). This regulation was
24 struck down after the agreements at issue. See id. at 1076.
25 Because the regulation was in effect when Barr and Zeneca
26 finalized their agreement, the majority finds it implausible

1 that they could have envisioned any anti-competitive effect
2 from the portion of the agreement allowing Barr to deploy its
3 exclusivity period if another generic manufacturer succeeded in
4 invalidated Zeneca's patent. That inference is certainly one
5 that a reasonable fact finder could draw from the facts alleged
6 to date. However, a reasonable fact-finder could also conclude
7 that it is quite unlikely that sophisticated parties would
8 include in their agreement a provision that had no potential
9 benefit to either of them. Is it not at least as likely that
10 the parties were conscious that the regulation was vulnerable
11 to attack and that they wished to add another layer of
12 protection against potential competitors in the event the
13 regulation was invalidated? Discovery would presumably
14 produce materials relevant to determining whether this
15 provision was part of an antitrust conspiracy between Barr and
16 Zeneca. Among other things, the parties may have had written
17 communications concerning the purpose of the exclusionary-
18 period clause. If not, the corporate employees who negotiated
19 the agreement could be deposed. And, the parties could explore
20 the state of legal discussion concerning the successful-defense
21 requirement at the time of the agreement. Thus, it is
22 premature to reject out of hand plaintiffs' claim that Barr and
23 Zeneca agreed to the exclusivity-period provision because they
24 wanted to further restrict other generic manufacturers' ability
25 to market Tamoxifen.

26 *E. Antitrust injury.*

1 In addition to affirming dismissal of the
2 paragraph IV certification claim because plaintiffs did not
3 adequately describe an antitrust violation, the majority states
4 that it has "grave doubt as to whether, even if the defendants
5 agreed to deploy the exclusionary period to protect their
6 shared monopoly power, the injury that the defendants allege
7 they suffered in this regard constitutes 'antitrust injury.'" *Majority op.* at [68]. The majority's doubt stems, in part, from
8 Zeneca's victories in subsequent patent litigation. *Id.* at
9 [69] Because these victories could not have existed if (1) the
10 settlement agreement had not been signed and (2) Barr had
11 prevailed on appeal, they are not finally determinative of
12 causation. Therefore, it is necessary to assess the strength
13 of Zeneca's patent in order to decide whether the injuries were
14 really caused by the patent itself or by the agreements.

16 **III. The inappropriateness of dismissal at the Rule**
17 **12(b)(6) stage.**

18 Applying the reasonableness inquiry that I
19 suggest requires a factual record not yet in existence. We
20 have no sense of the value to Barr of the exclusivity period it
21 gave up or the relationship of the value of this period to the
22 reverse payment Zeneca made. Nor do we have any sense of the
23 negotiations between the parties concerning the provision that
24 allowed Barr to revivify its Paragraph IV certification.
25 Finally no judge or appellate panel has attempted to discern

1 whether Judge Broderick's findings of facts were clearly
2 erroneous. Allowing the parties to develop a record and make
3 summary judgment motions would give the district court
4 information it needs to assess the reasonableness of the
5 agreements.

6 However, even under the majority's newly
7 articulated standard, I believe that it was wrong to affirm the
8 dismissal. At a minimum, the plaintiffs should be allowed to
9 develop a factual record to demonstrate that Zeneca's
10 litigation was sham because they had no reason to anticipate
11 the standard articulated here. I note that the courts that
12 have finally rejected antitrust challenges to Hatch-Waxman
13 settlements have done so after reviewing a full record. See
14 Schering-Plough, 402 F.3d at 1058 (granting a petition for
15 review of and reversing an agency decision made upon a full
16 record that granted injunctive relief against certain Hatch-
17 Waxman settlements); In re Ciprofloxacin Hydrochloride
18 Antitrust Litig., 363 F. Supp. 2d 514, 517 (E.D.N.Y. 2005)
19 (granting summary judgment motion).

20 **CONCLUSION**

21 Because I disagree with the majority's test for
22 judging whether a Hatch-Waxman agreement violates antitrust
23 law, and because I believe it was inappropriate to dismiss
24 plaintiffs' complaint without allowing discovery, I
25 respectfully dissent.

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